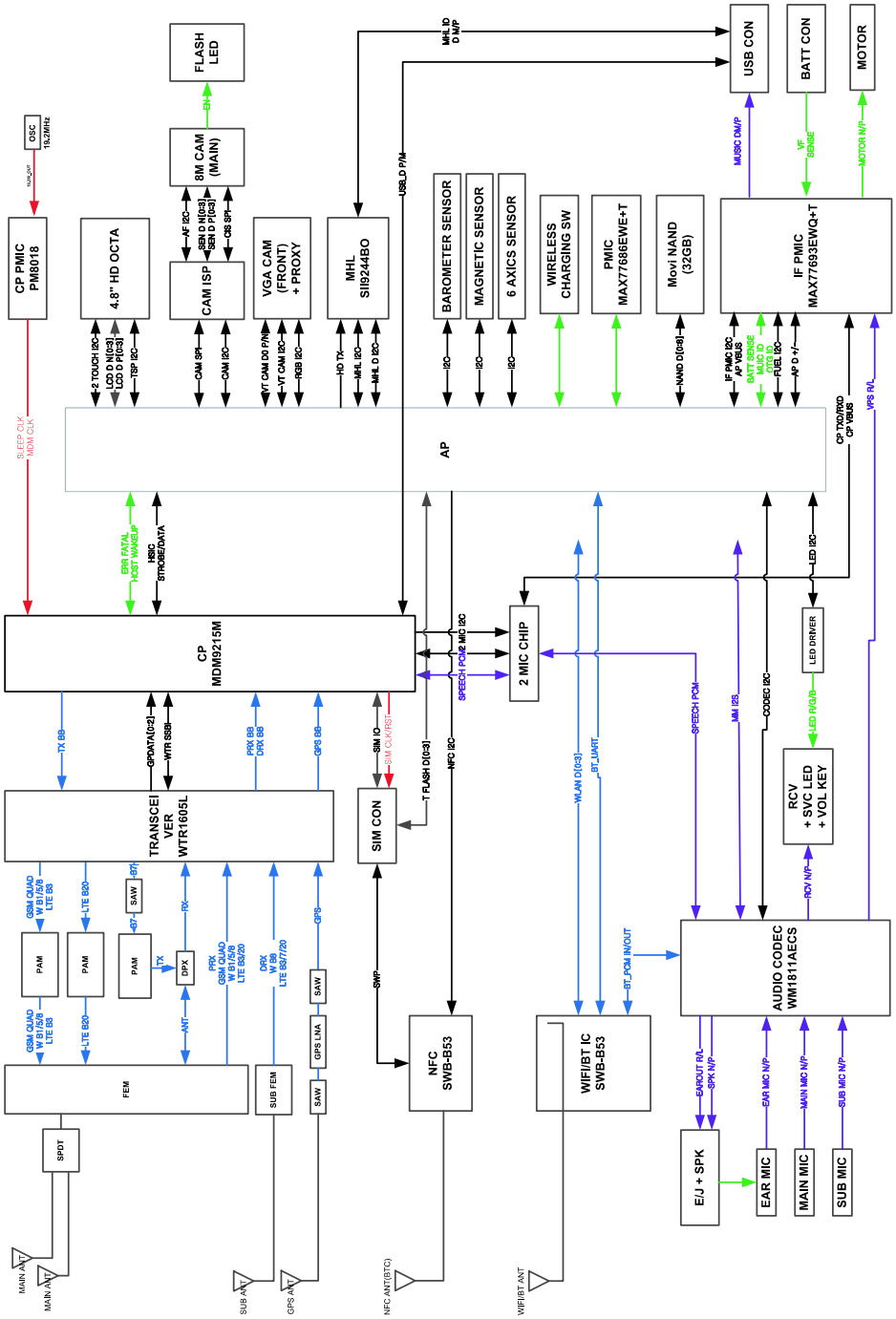
8. Level 3 Repair

8-1. Block Diagram



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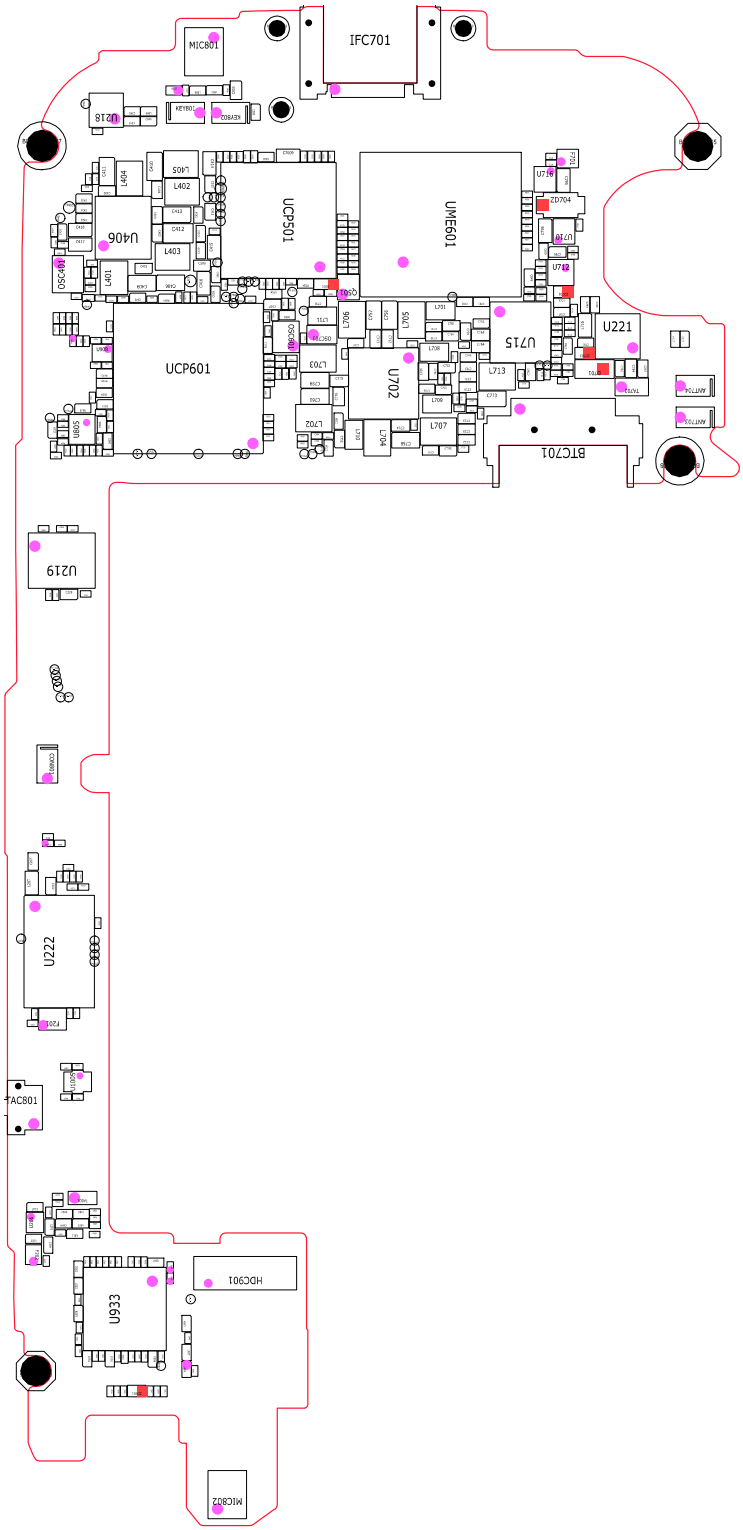
8-2. PCB Diagrams

8-2-1. Top



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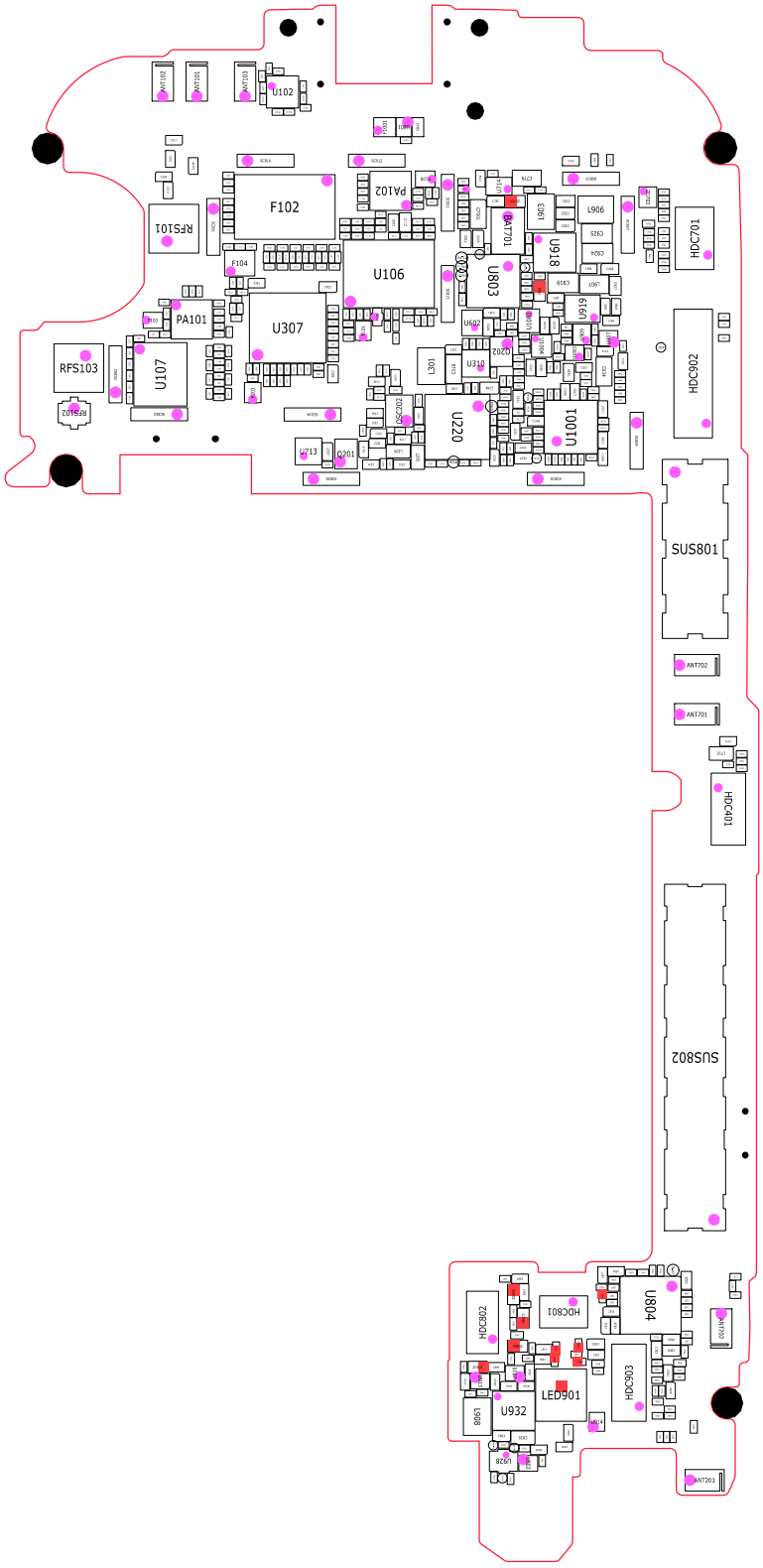
8-2-2. Bottom



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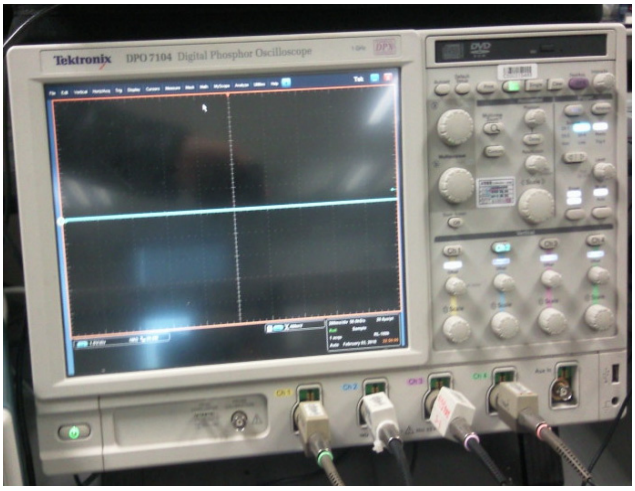
8-3. Flow Chart of Troubleshooting

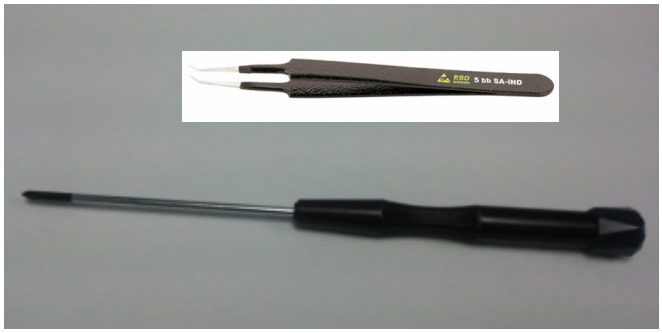
Equipments



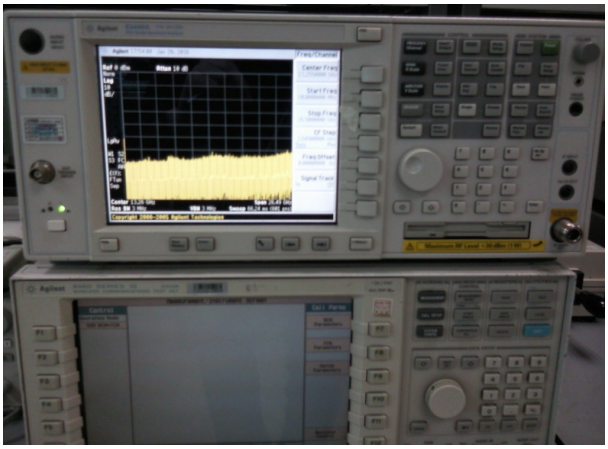
↑ Oscilloscope

↑ Digital Multimeter

↑ Power Supply



↑ + driver, ESD Safe Tweezer



↑ 8960 & Spectrum Analyzer

↑ Soldering iron

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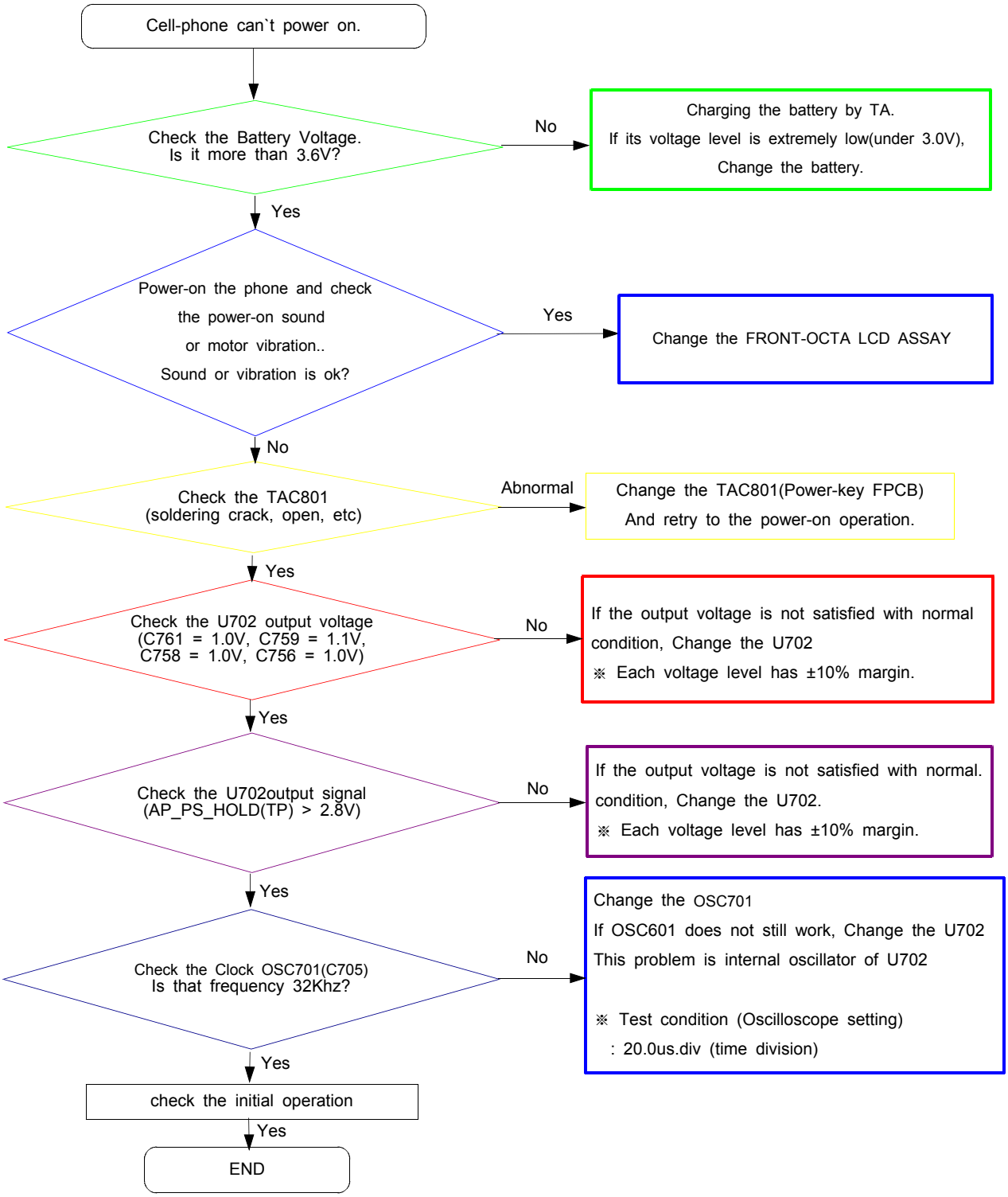
8-3-1. Power On



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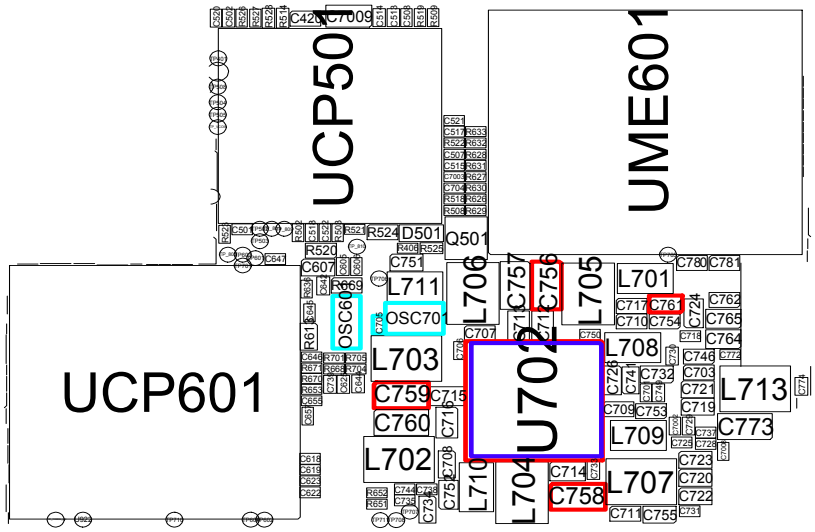

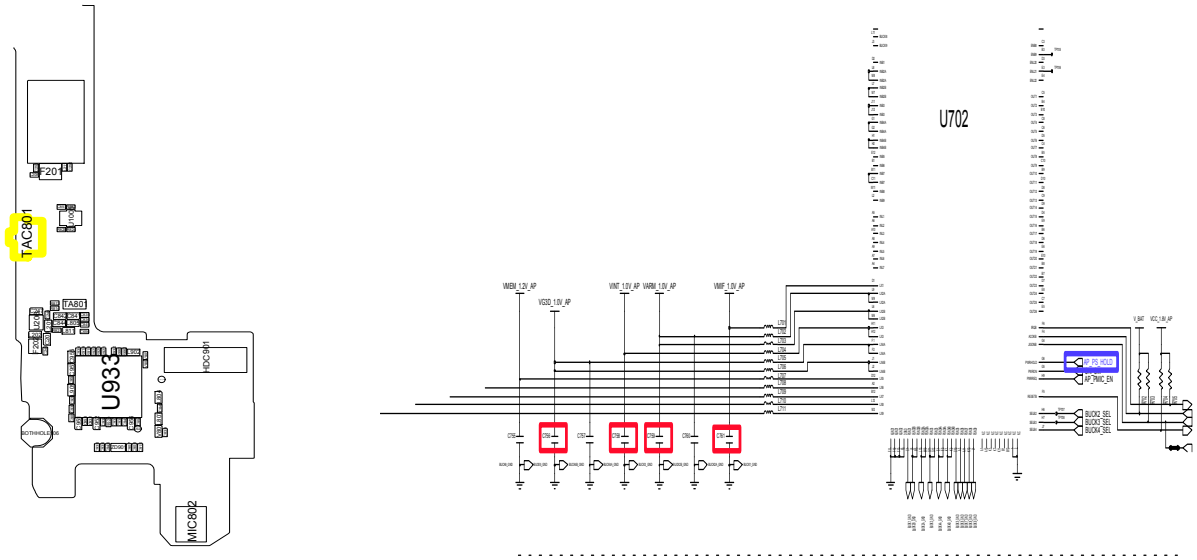

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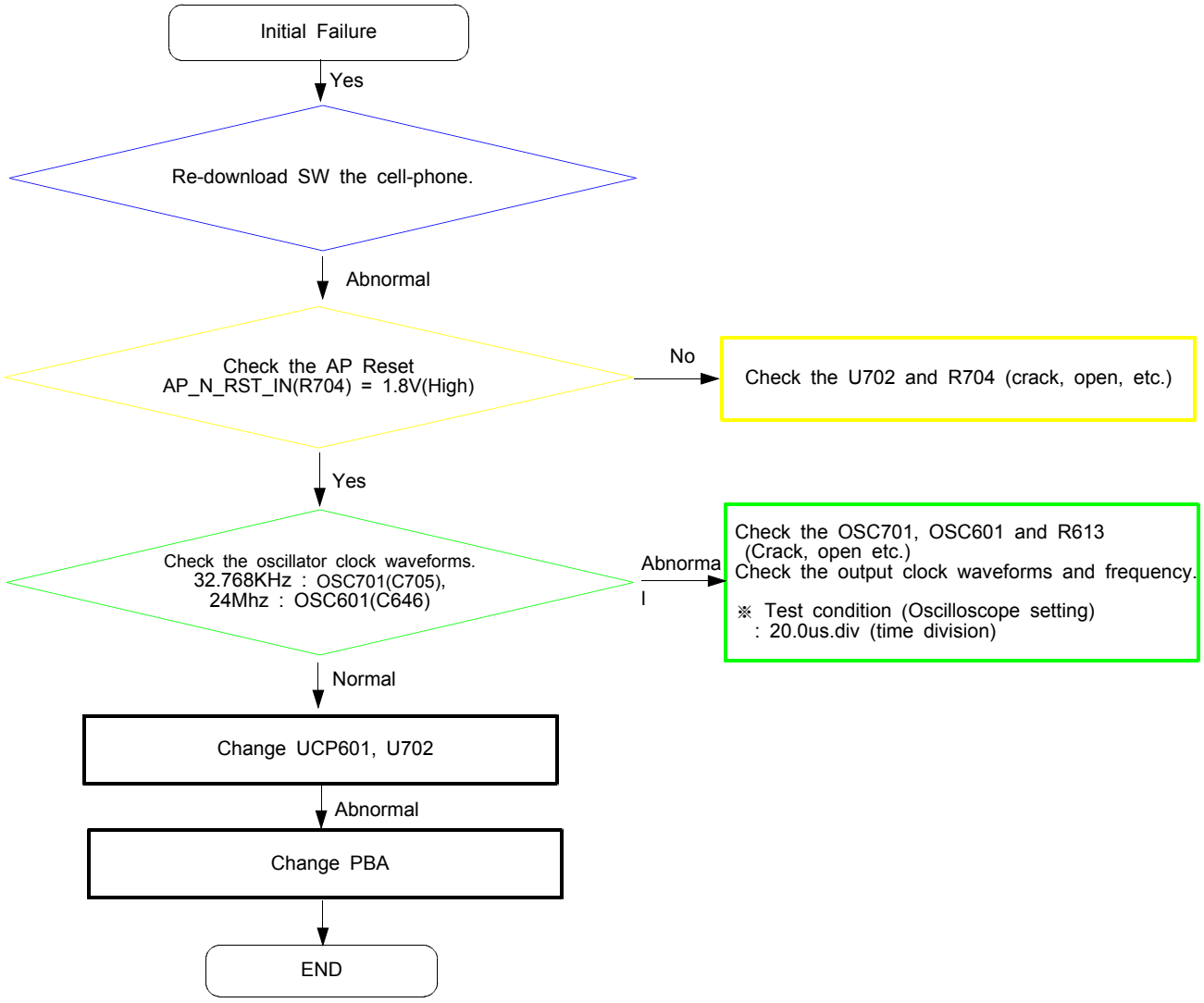
8-3-2. Initial



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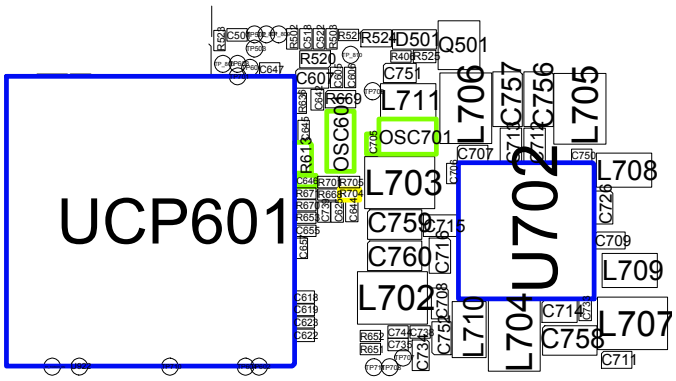

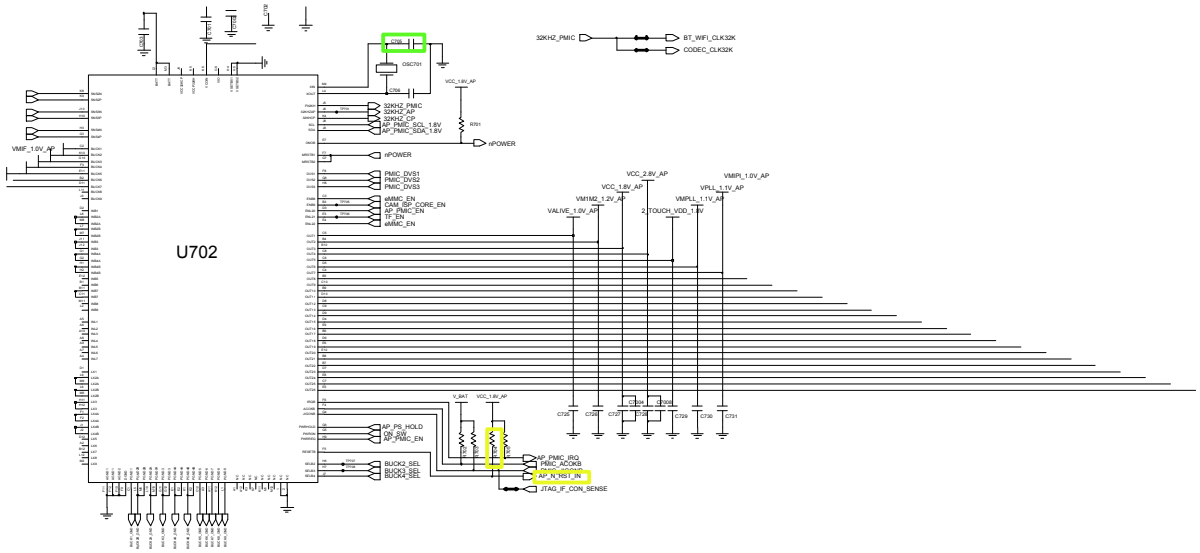

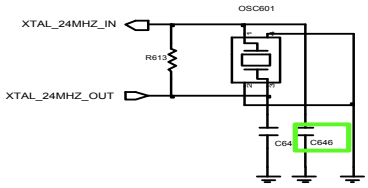

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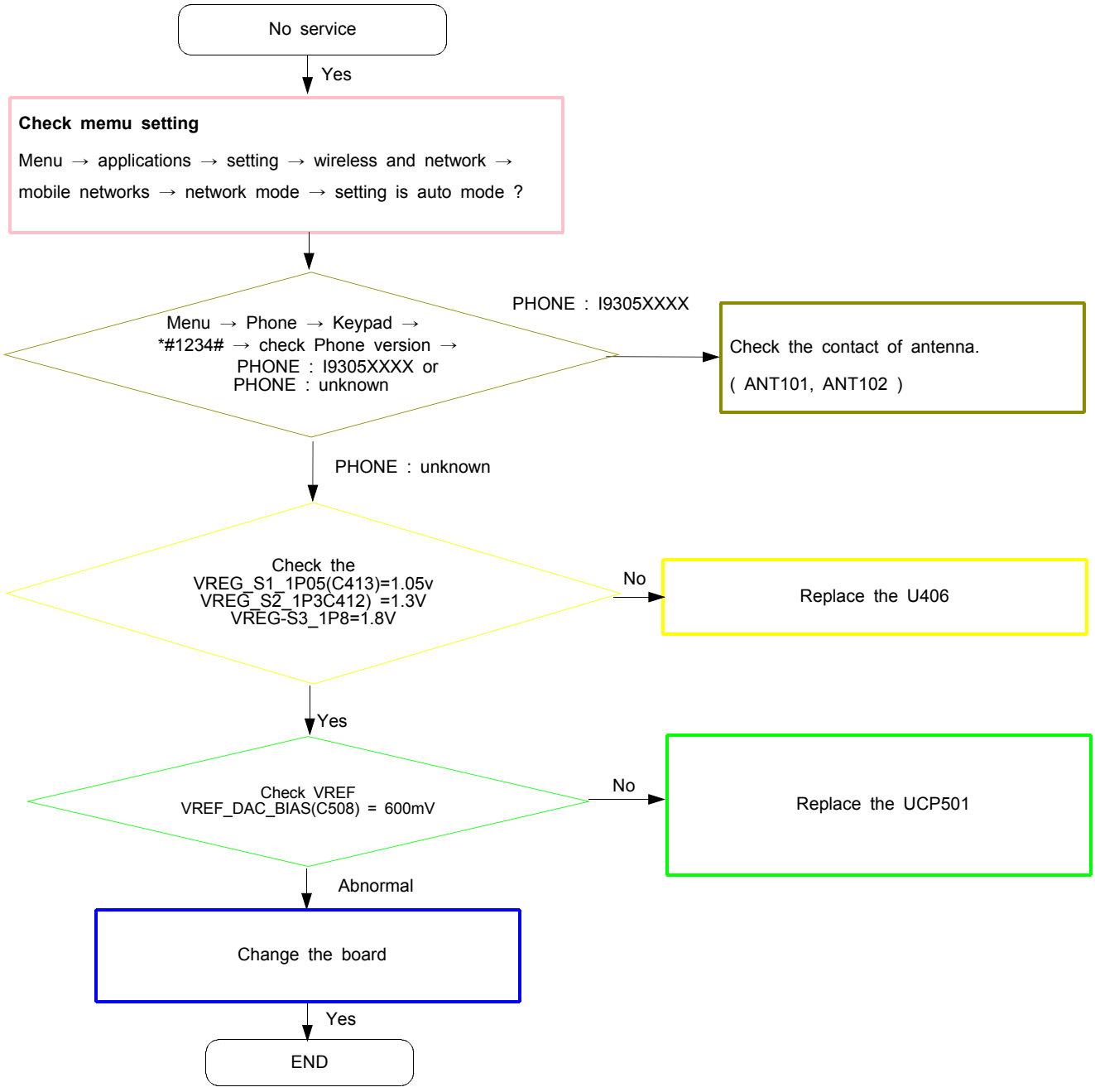
8-3-3. No Service


No service
Yes
Check memu setting
Menu → applications → setting → wireless and network → mobile networks → network mode → setting is auto mode ?
Menu → Phone → Keypad → *#1234# → check Phone version → PHONE : I9305XXXX or PHONE : unknown
PHONE : I9305XXXX
Check the contact of antenna.
(ANT101, ANT102)
PHONE : unknown
Check the VREG_S1_1P05(C413)=1.05v VREG_S2_1P3C412) =1.3V VREG-S3_1P8=1.8V
No
Replace the U406
Yes
Check VREF VREF_DAC_BIAS(C508) = 600mV
No
Replace the UCP501
Abnormal
Change the board
Yes
END

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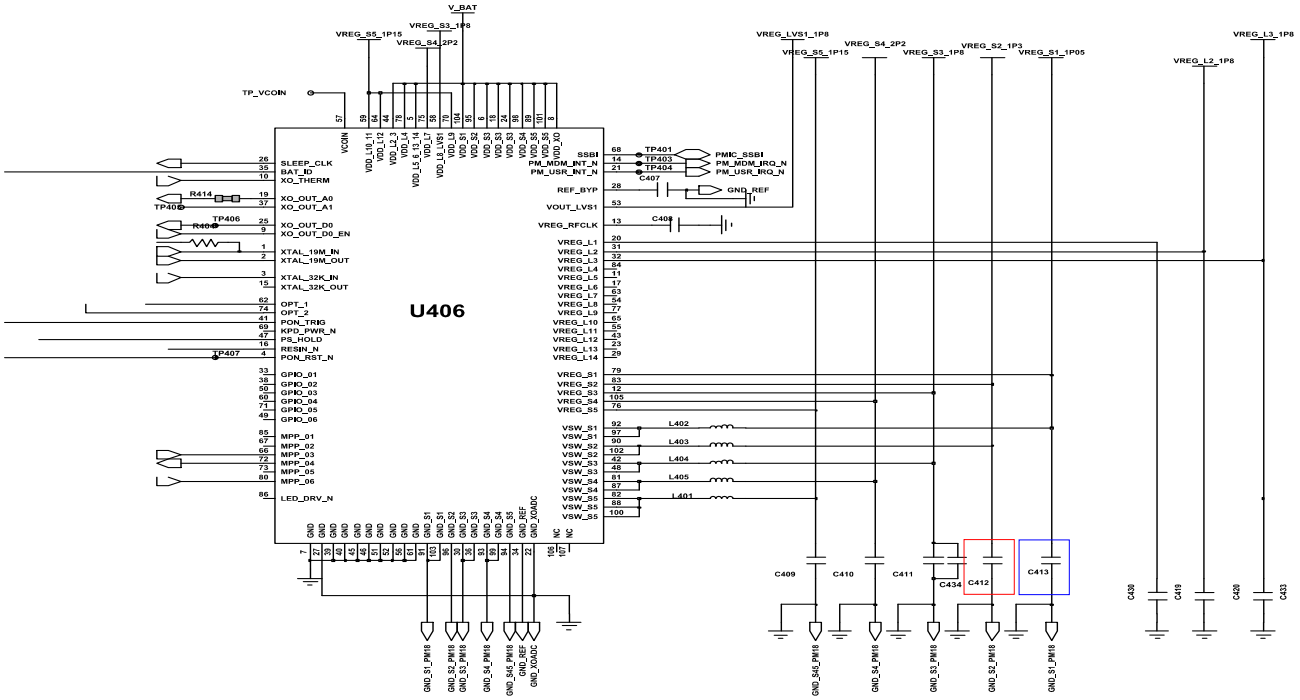

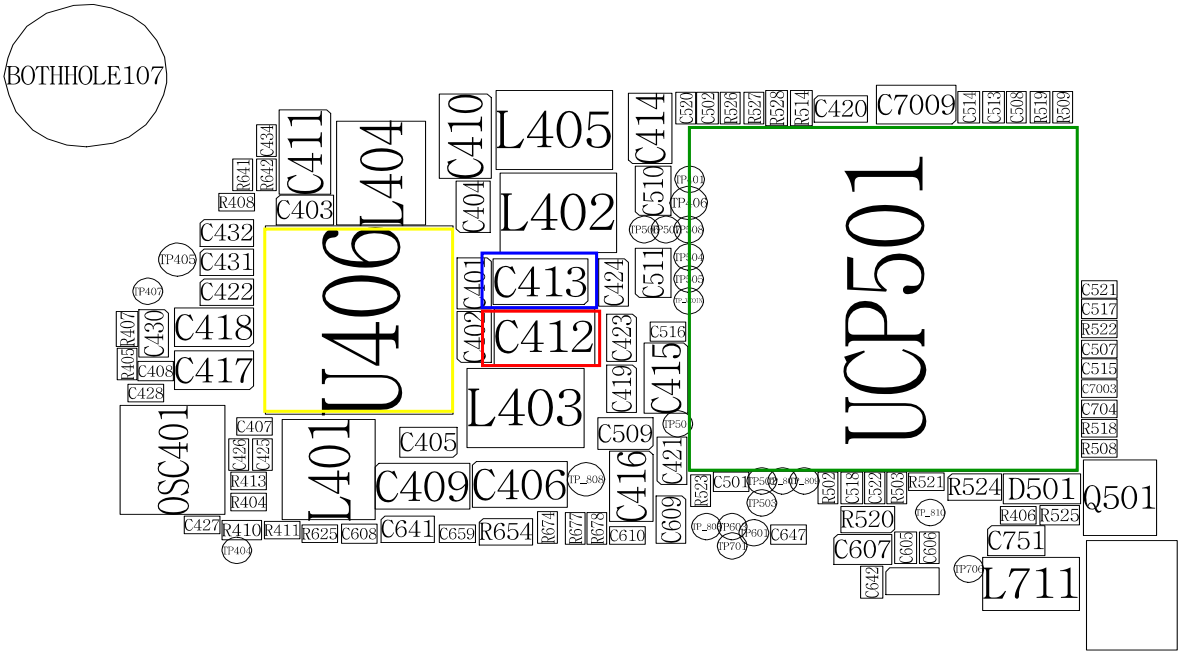

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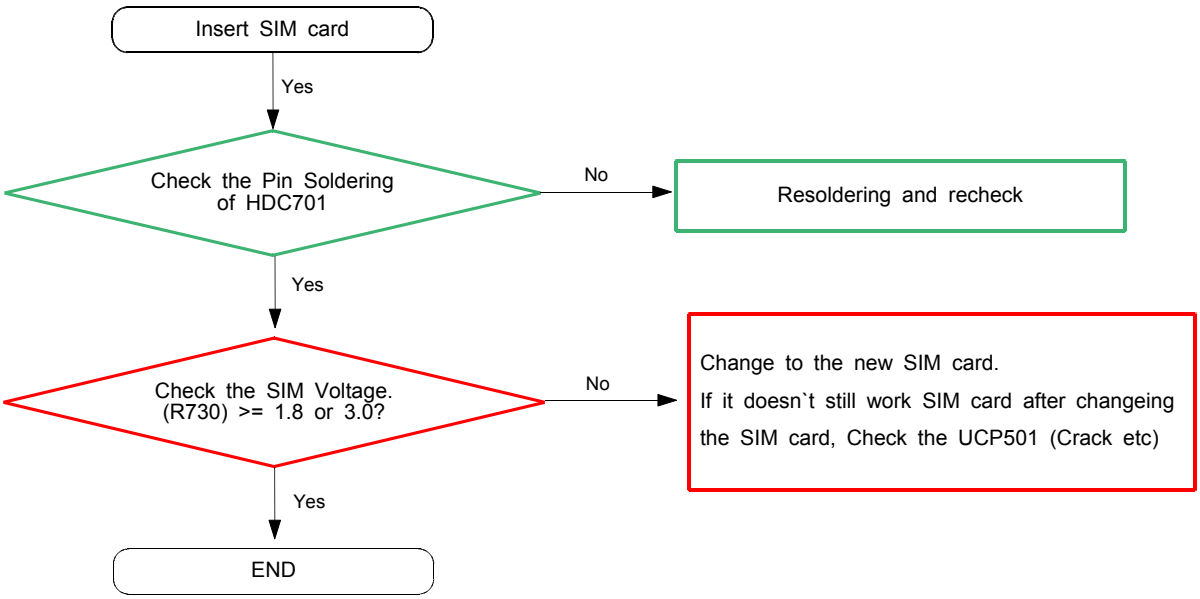
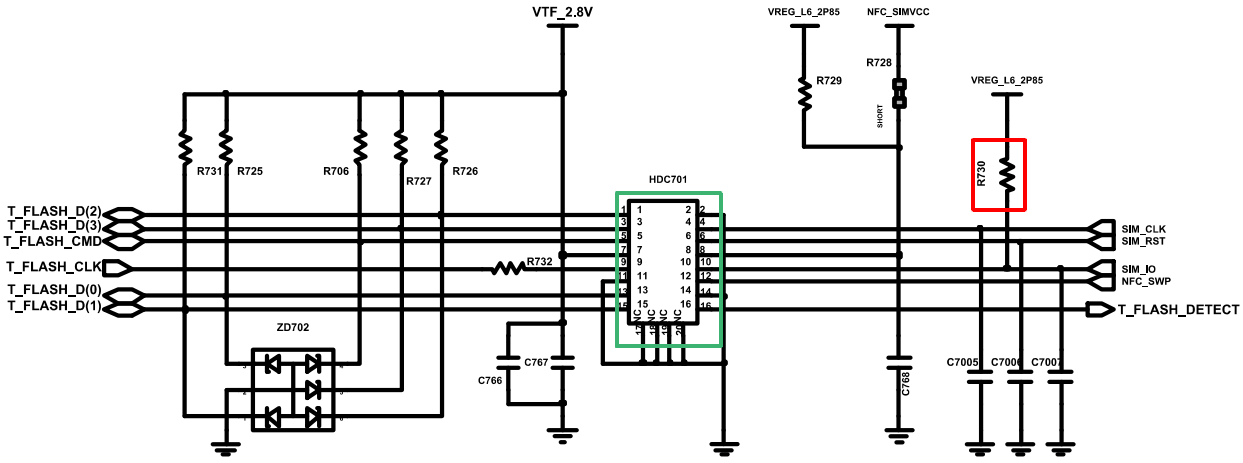
8-3-4. Sim Part


Insert SIM card
Yes
Check the Pin Soldering of HDC701
No
Resoldering and recheck
Yes
Check the SIM Voltage. (R730) >= 1.8 or 3.0?
No
Change to the new SIM card.
If it doesn`t still work SIM card after changeing the SIM card, Check the UCP501 (Crack etc)
Yes
END



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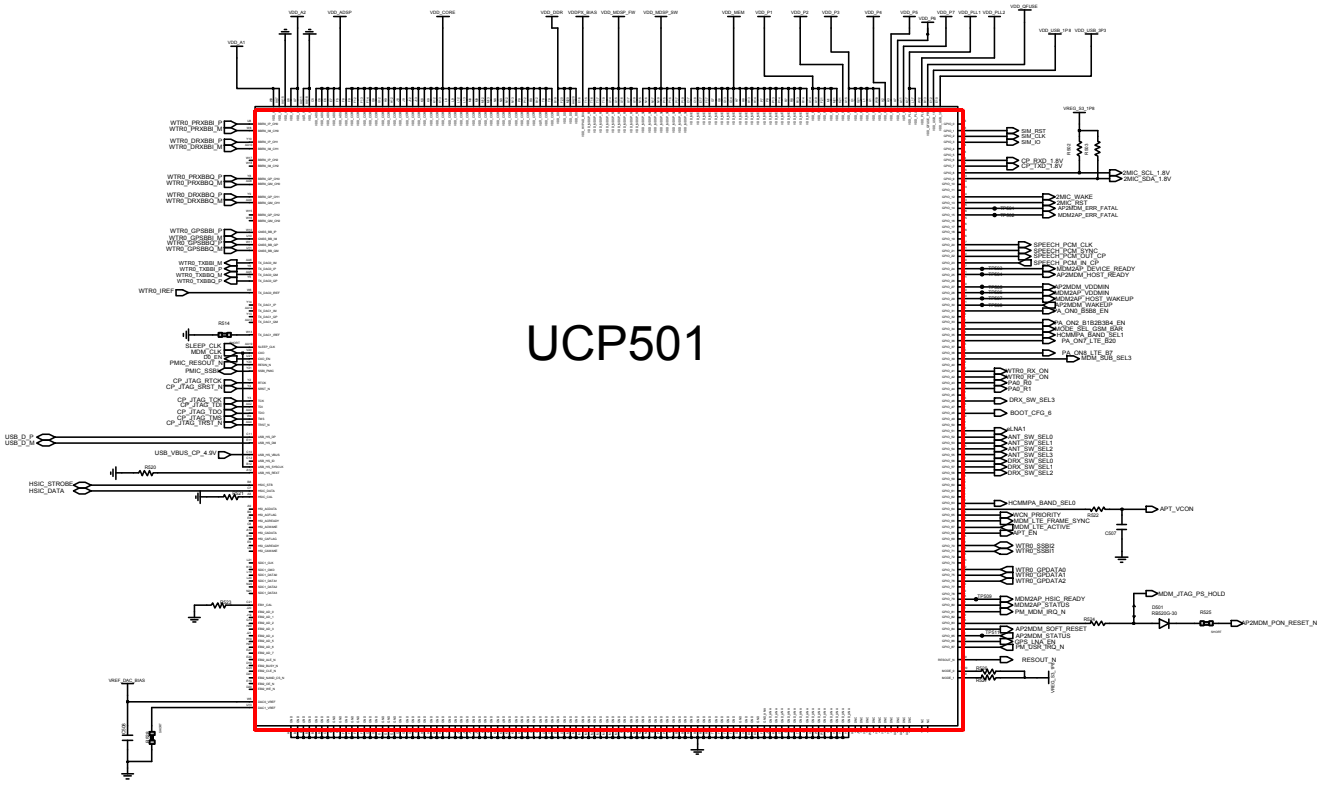

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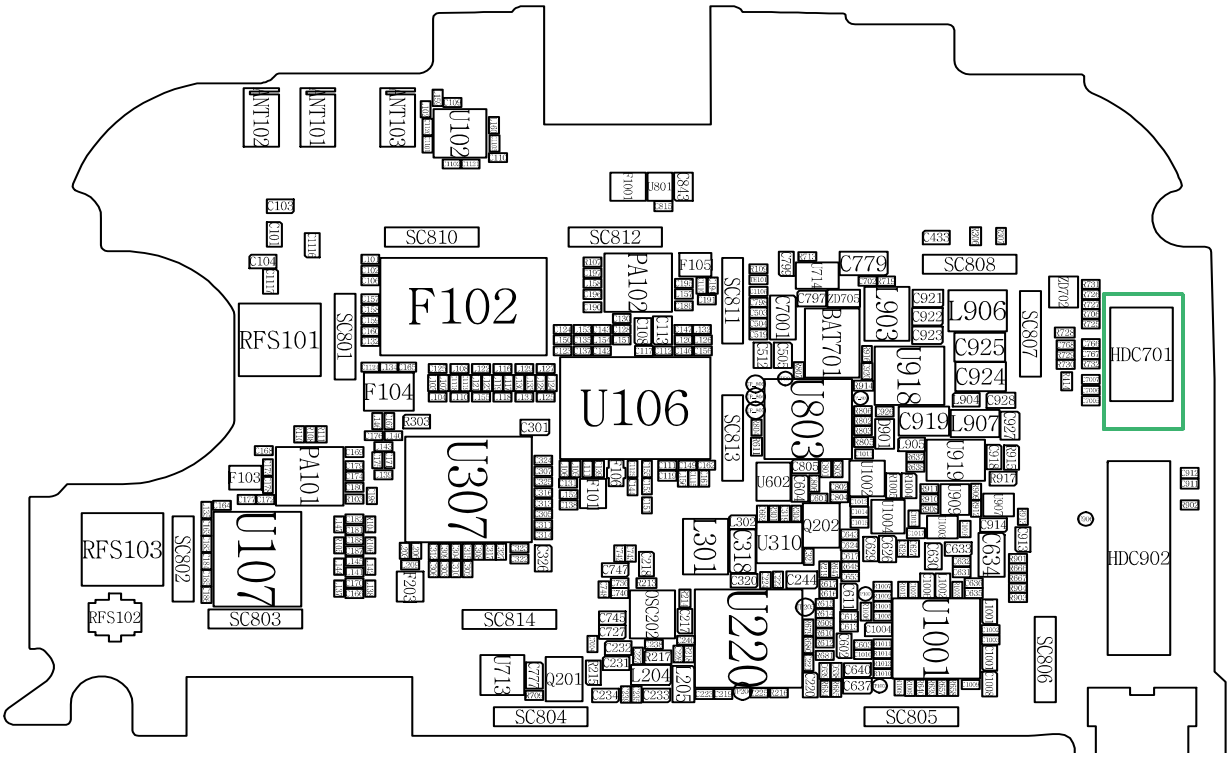

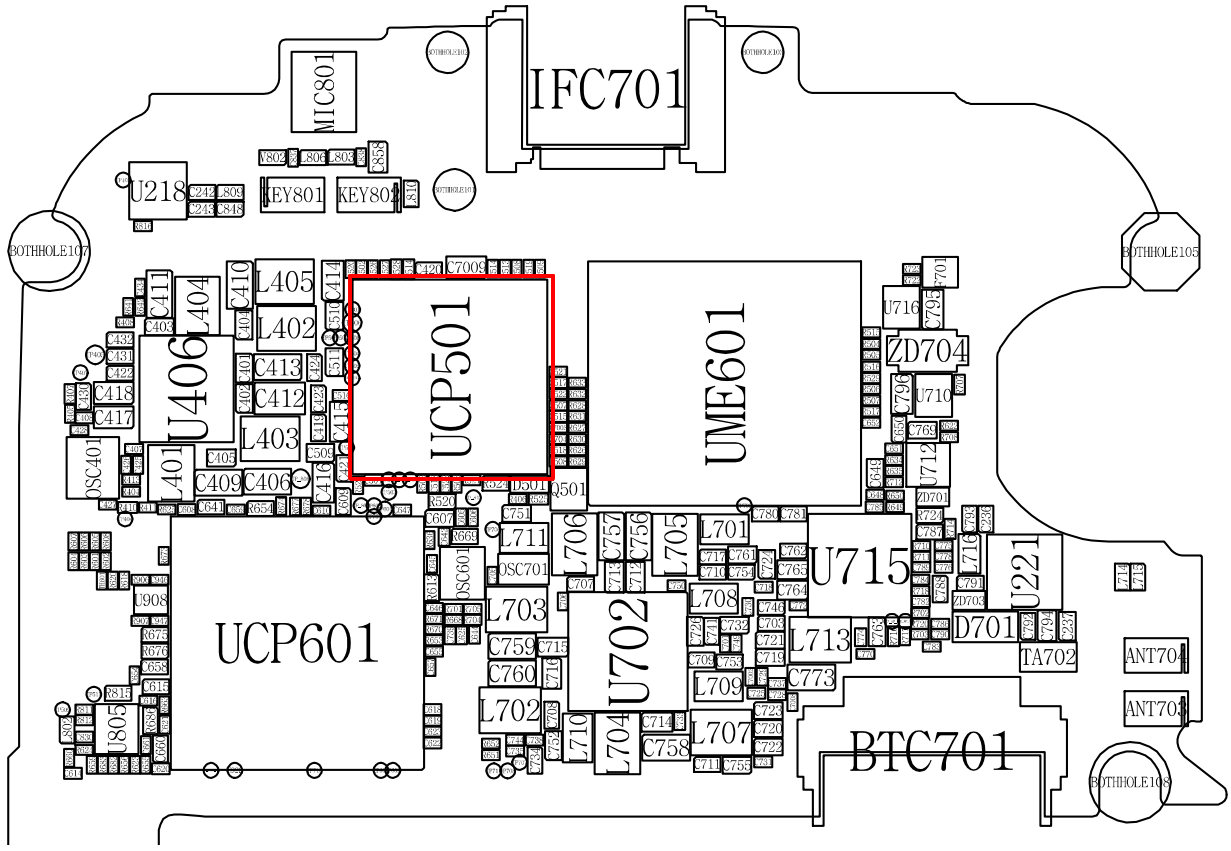

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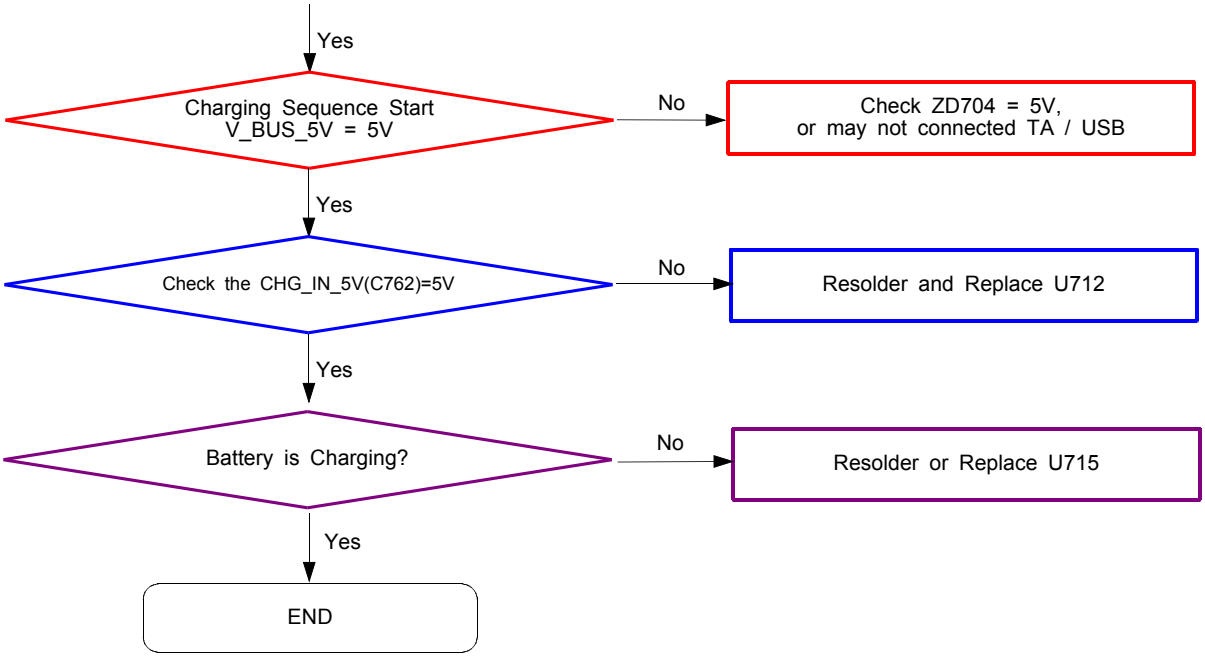
8-3-5. Charging Part



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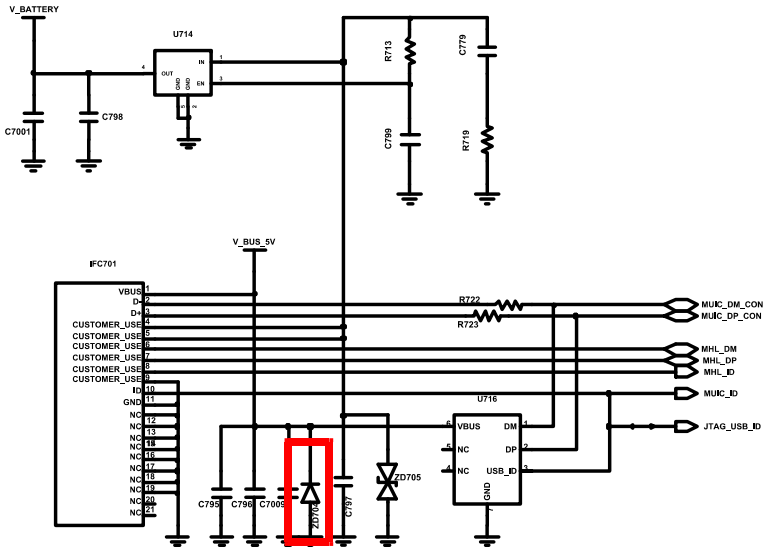

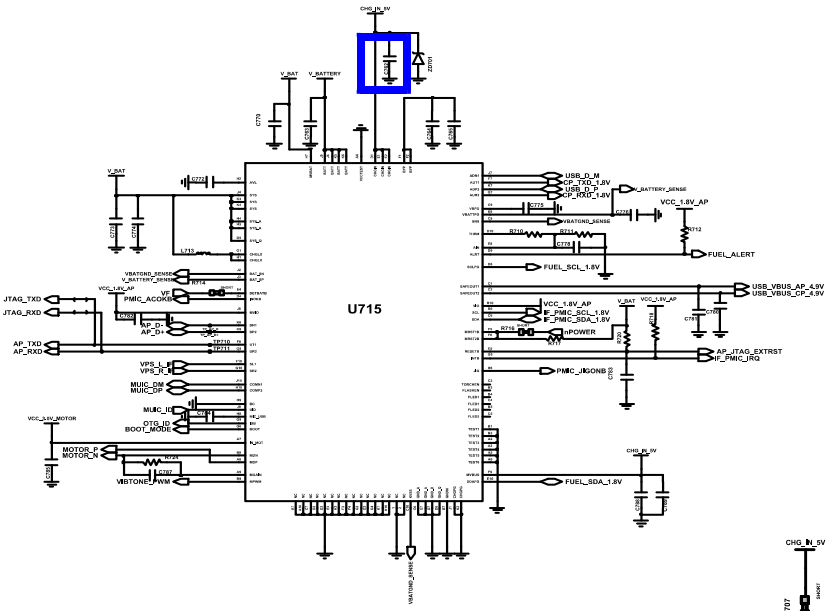

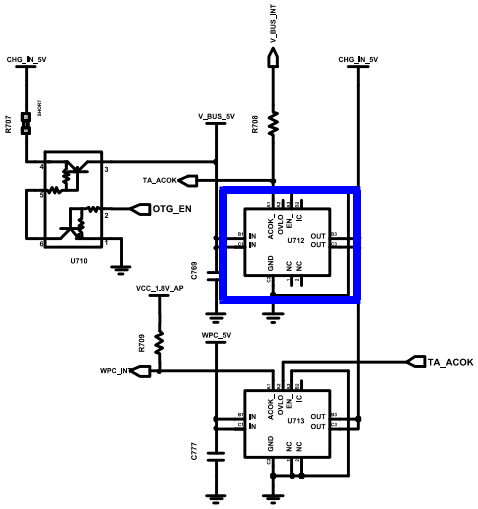

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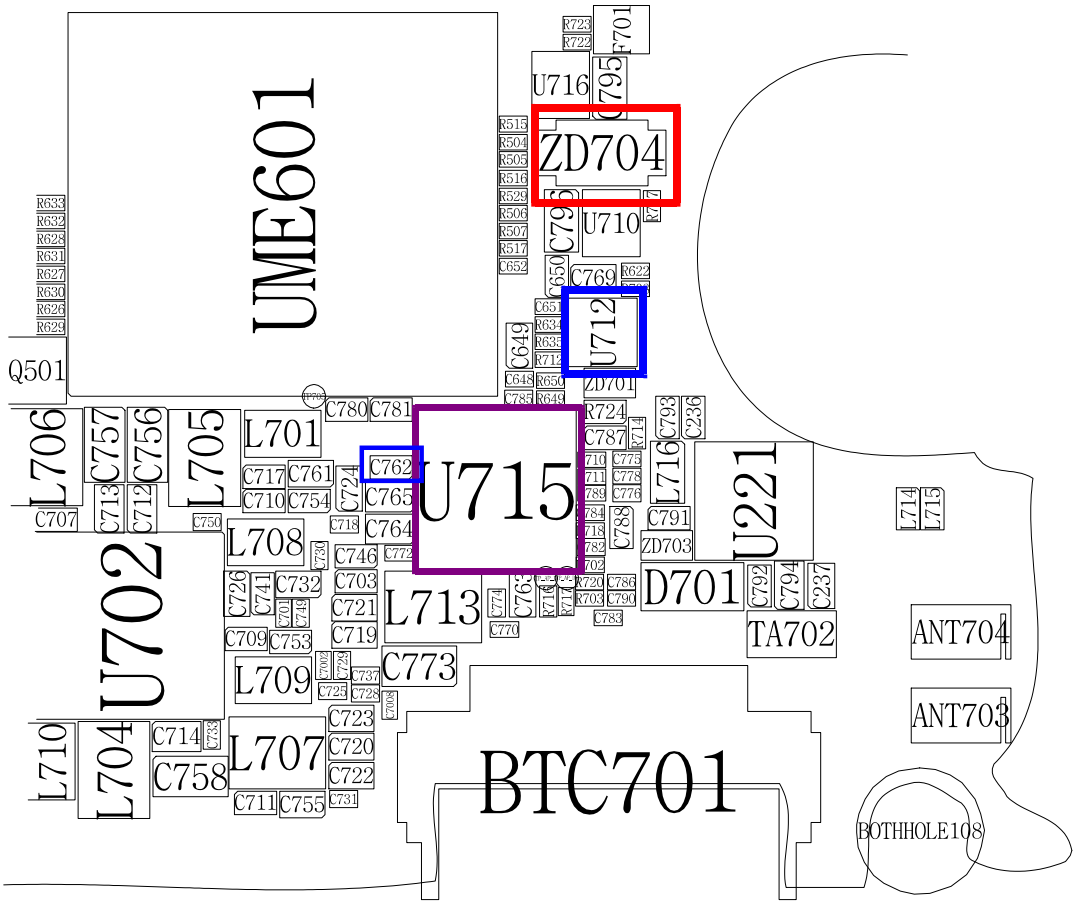

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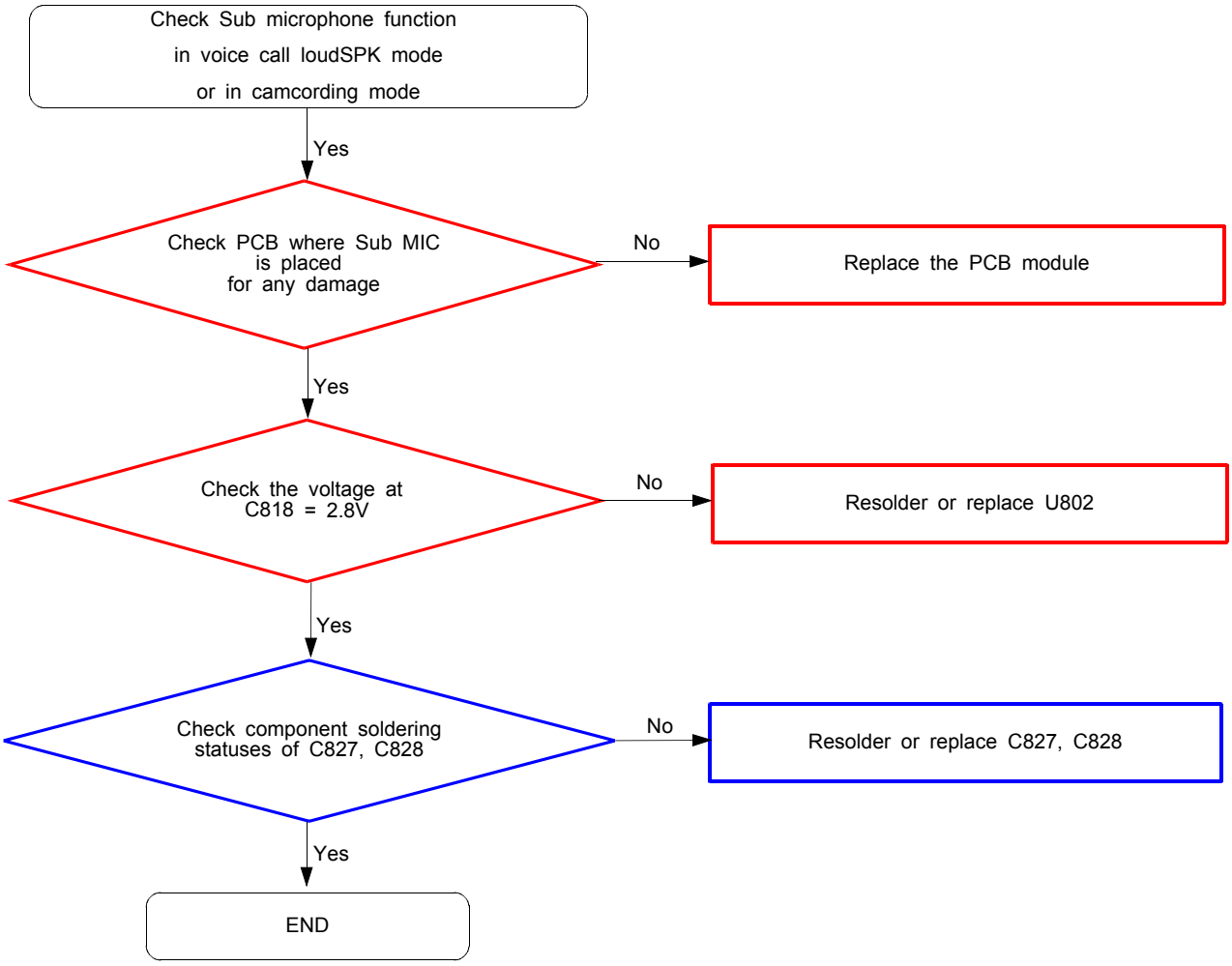
8-3-6. Microphone Part



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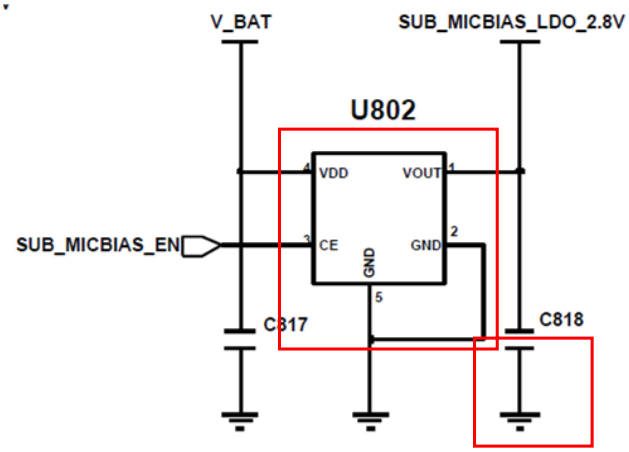

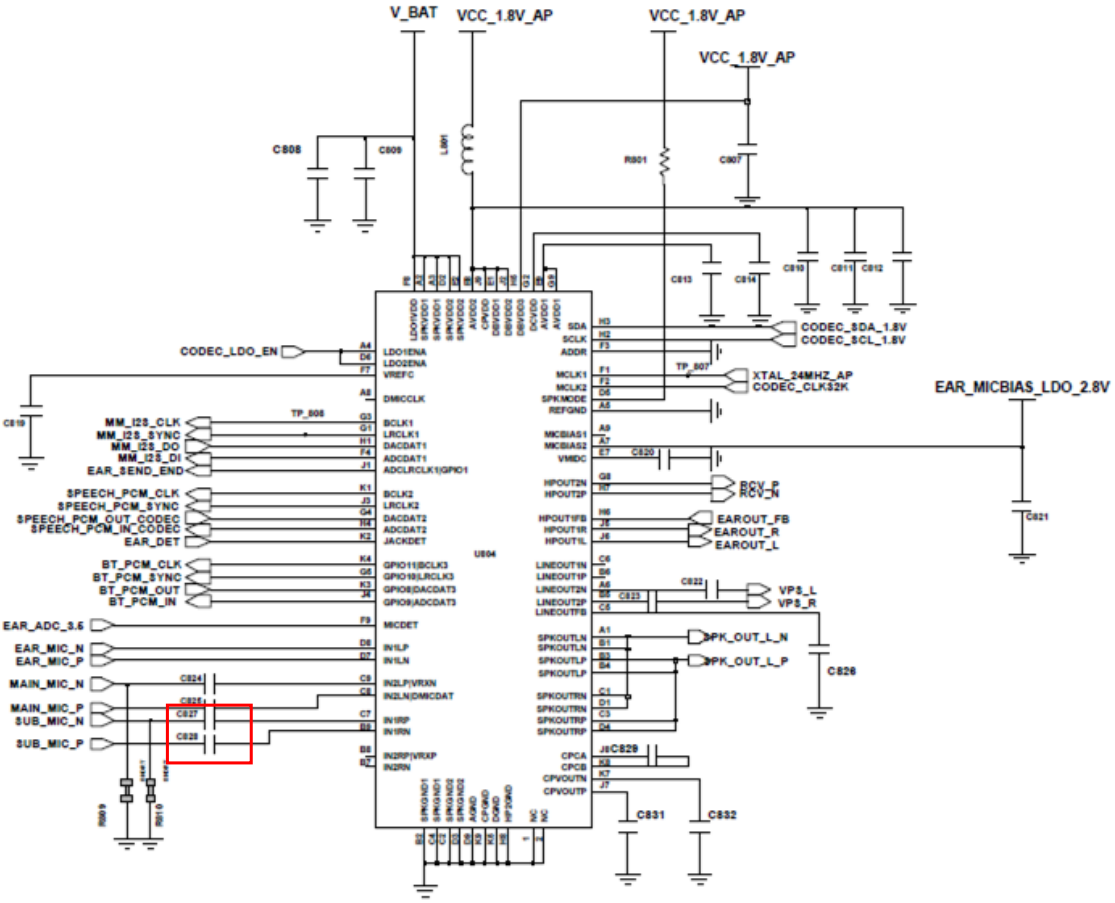

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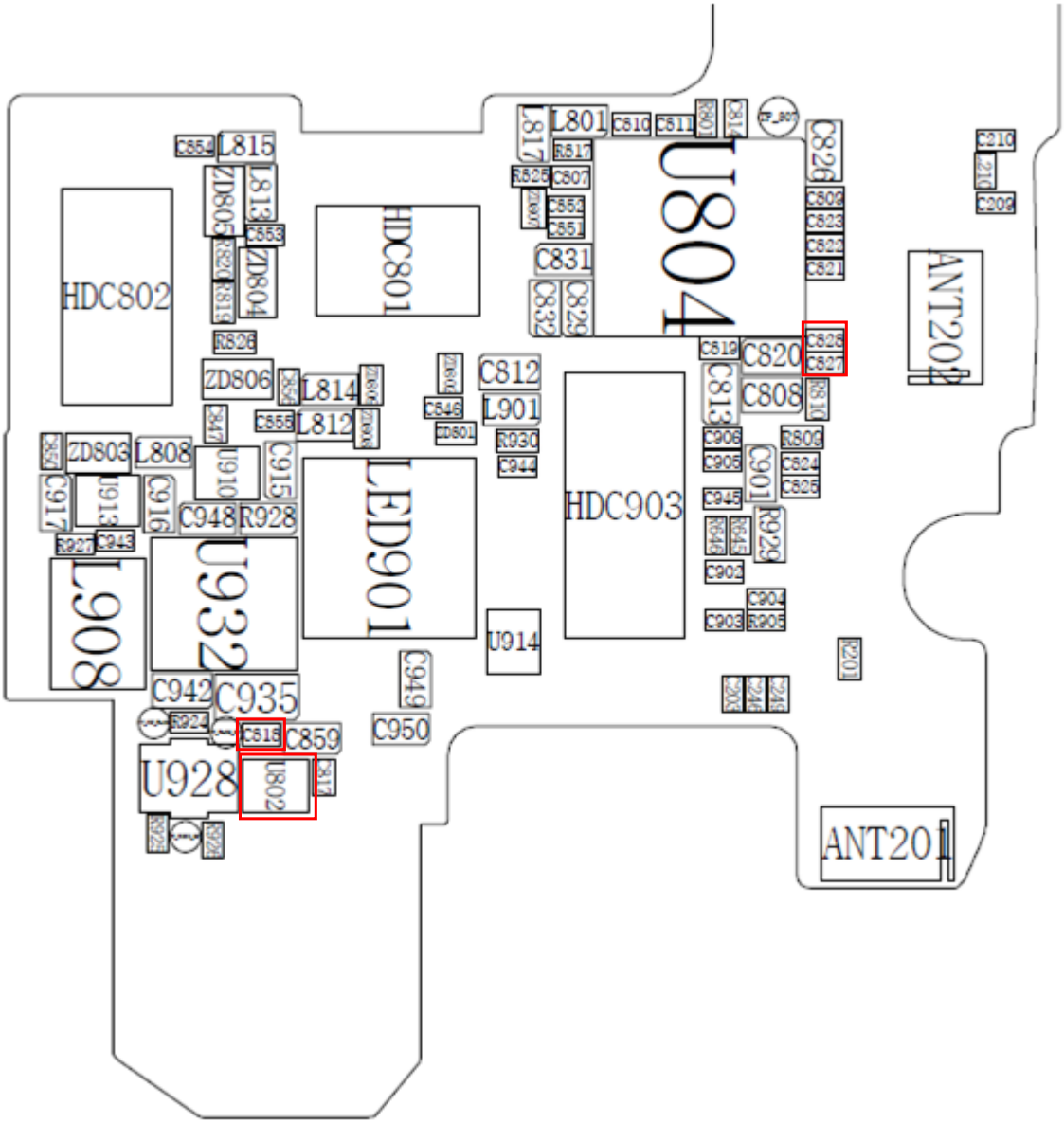

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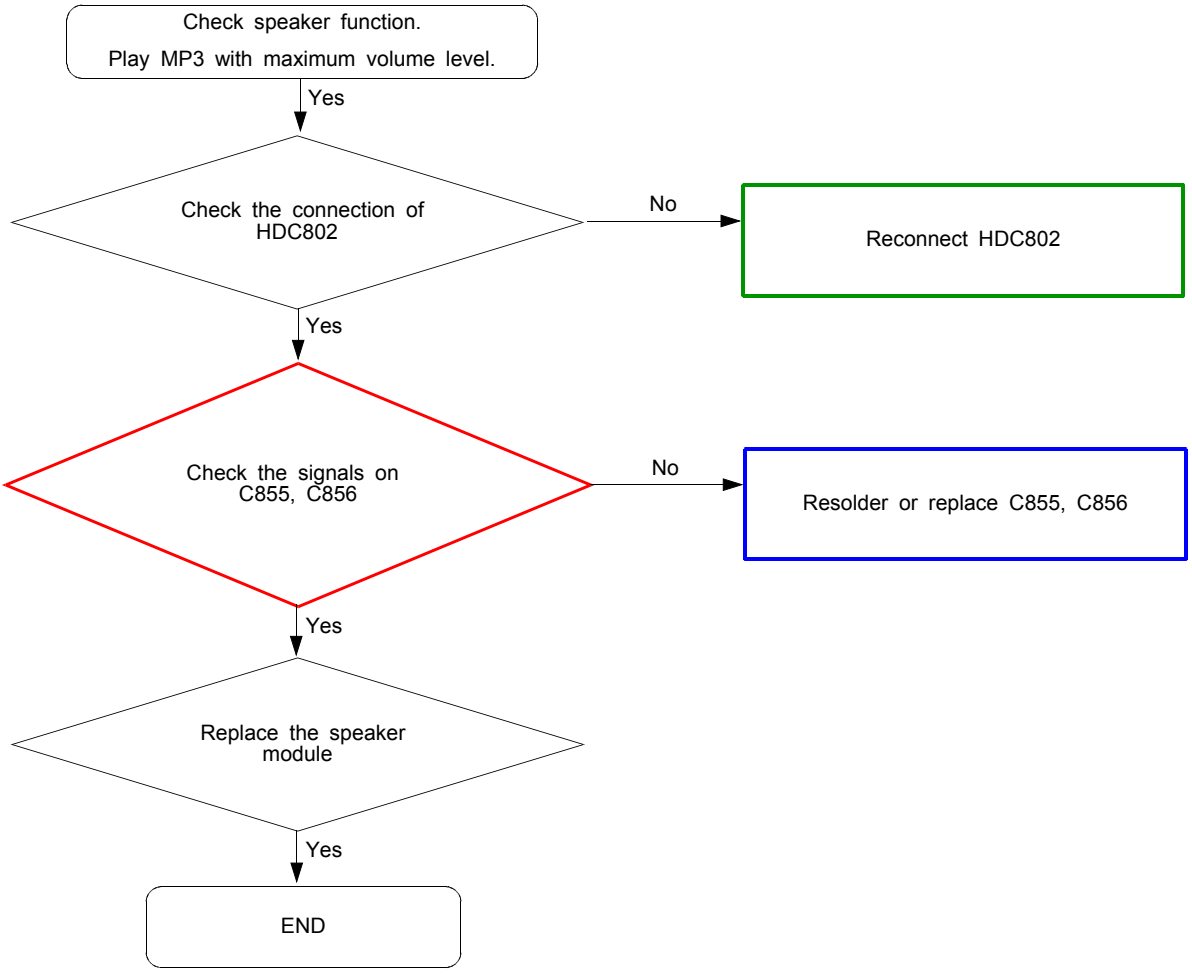
8-3-7. Speaker Part



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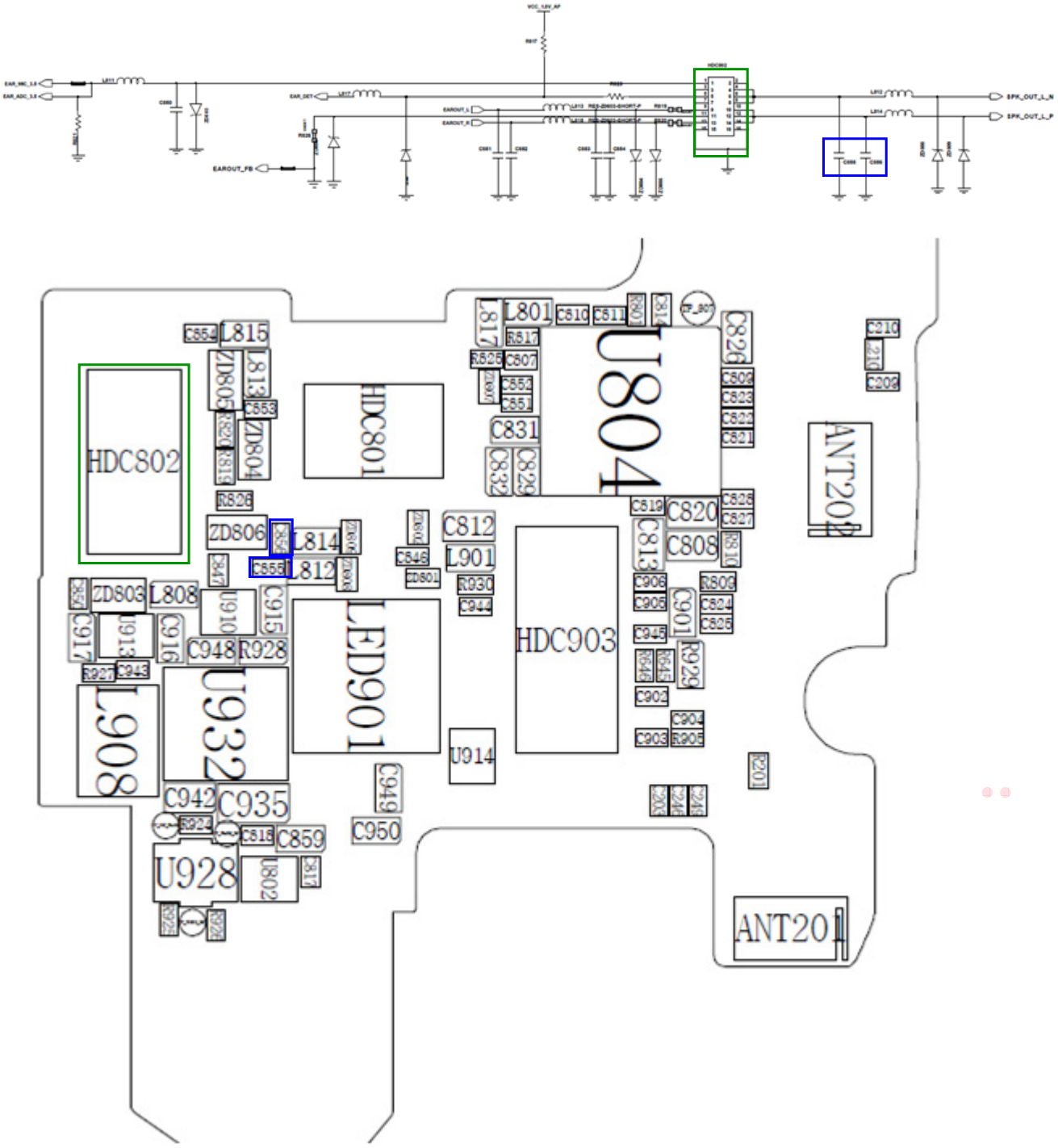

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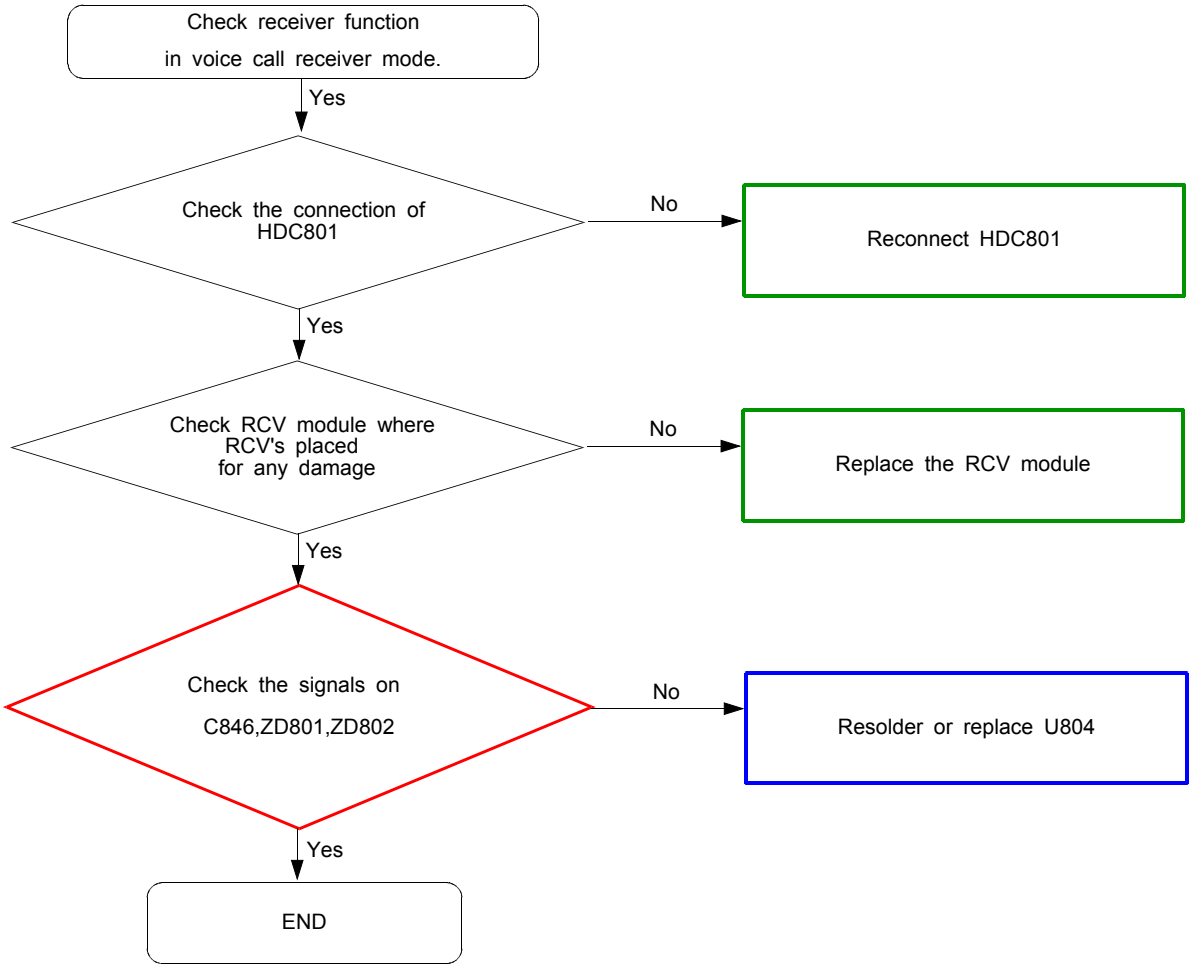
8-3-8. Receiver Part



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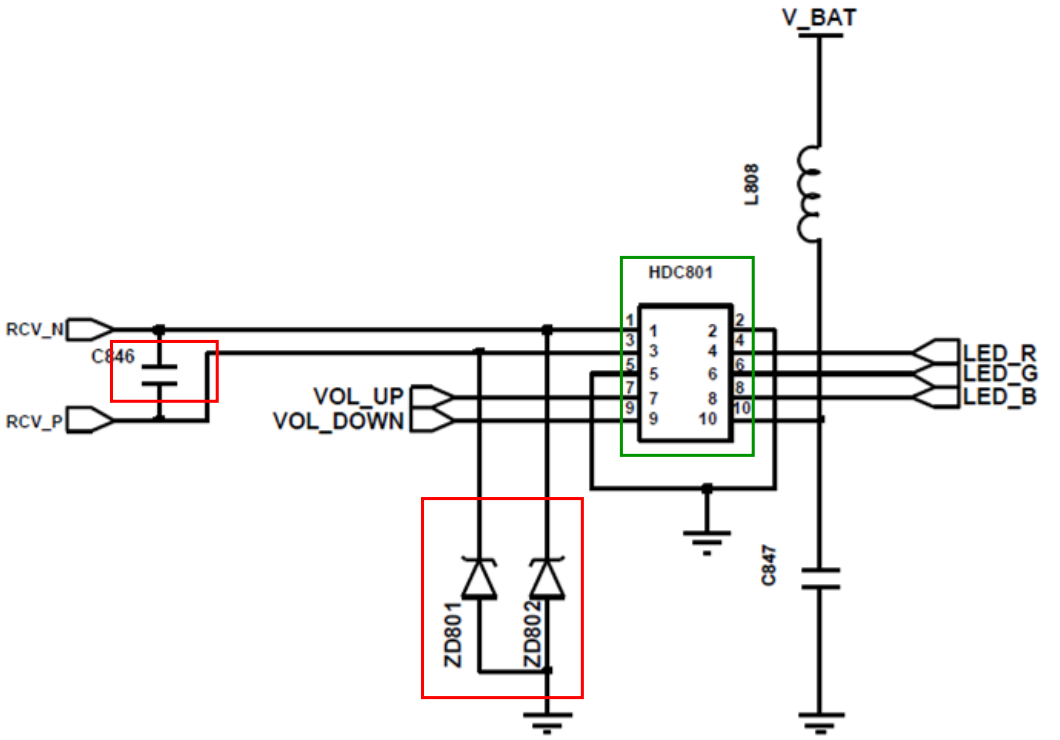

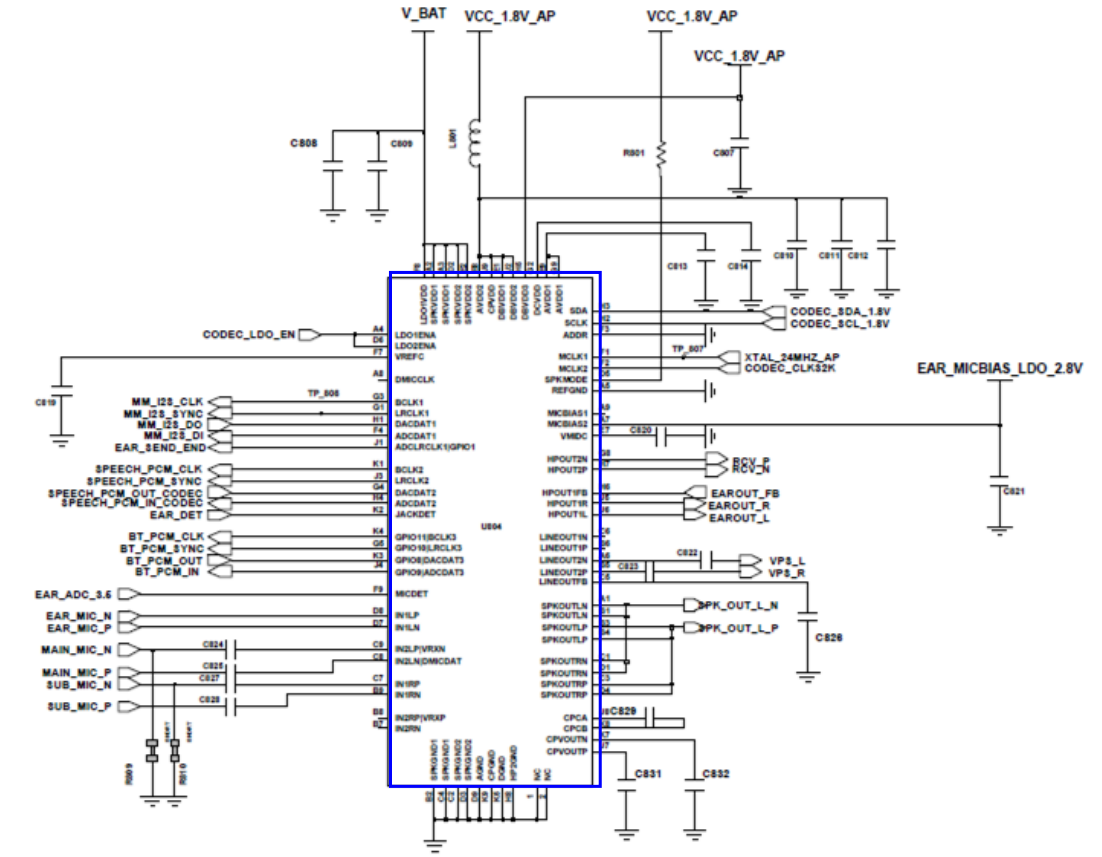

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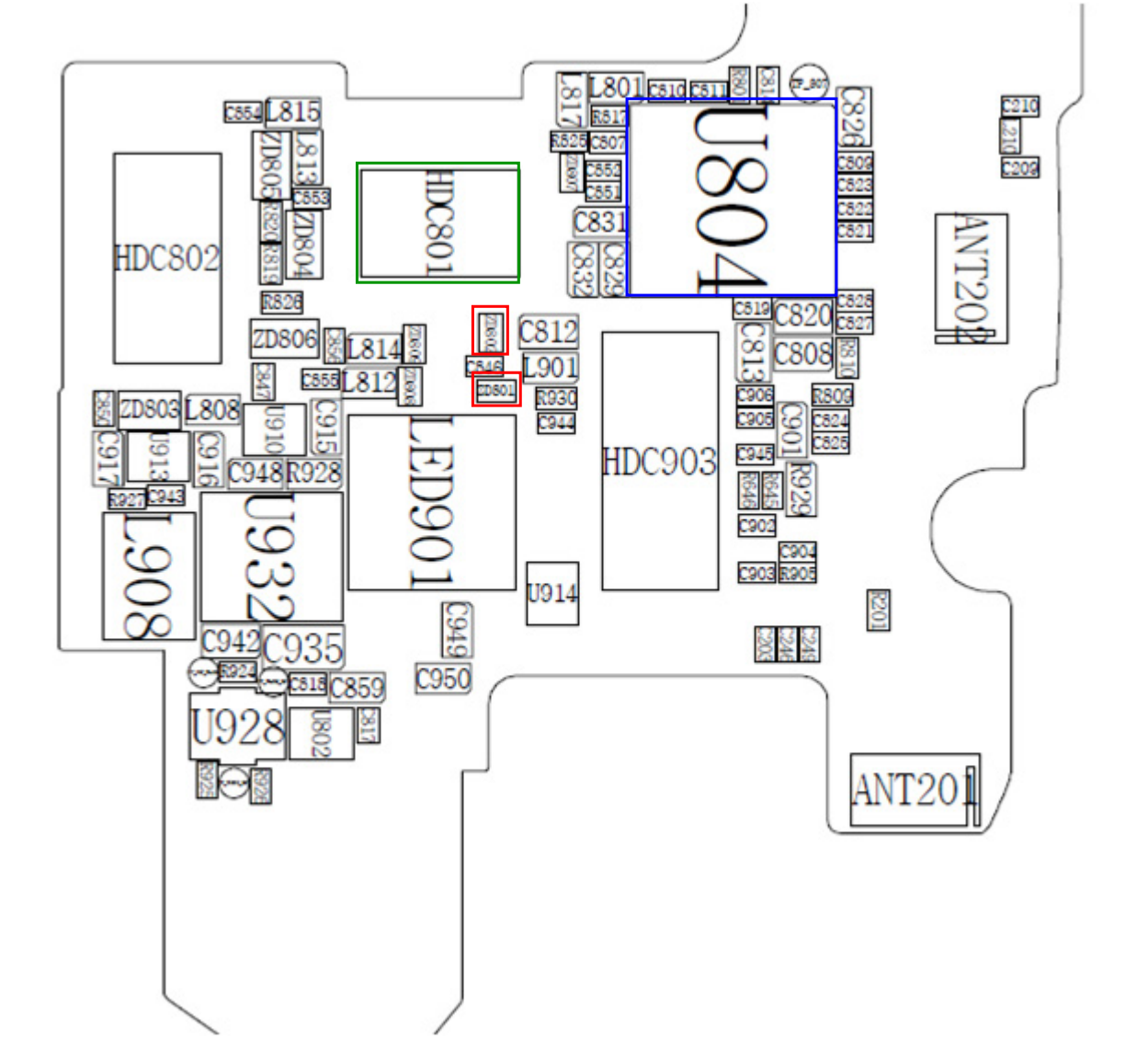
U804
HDC802
HDC801
HDC903
LED901
U932
L908
U928
ANT201
ANT202
L815
L801
L813
L814
L812
L808
L901
ZD806
ZD803
ZD804
C812
C820
C808
C813
C831
C829
C832
C826
C935
C859
C942
C948
R928
C915
C916
C917
U910
U913
C943
R927
U914
C949
C950
R930
C944
C901
R929
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C904
R905
C906
C905
R809
C827
C825
R810
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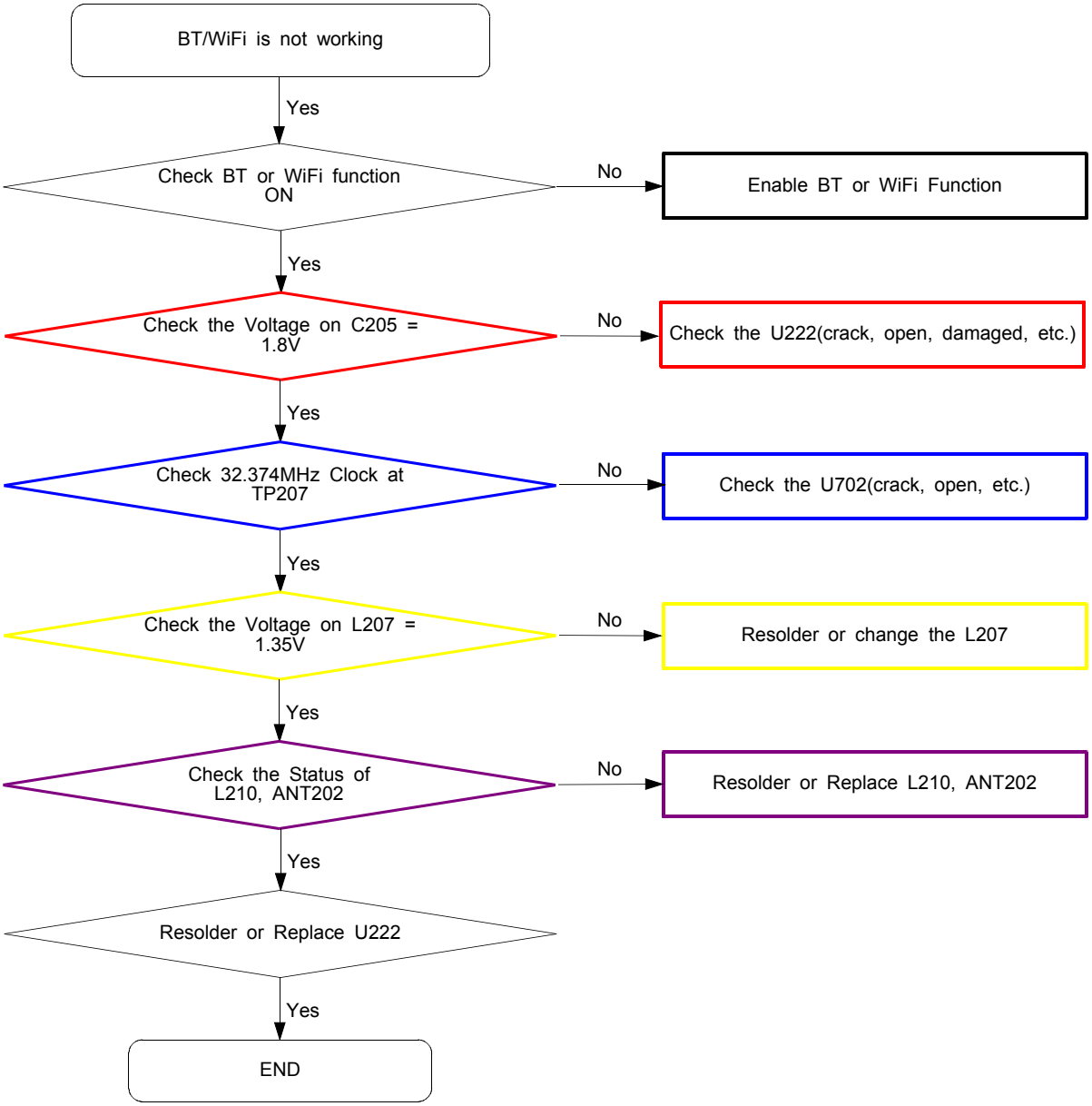
C900

8-3-9. BT/WIFI



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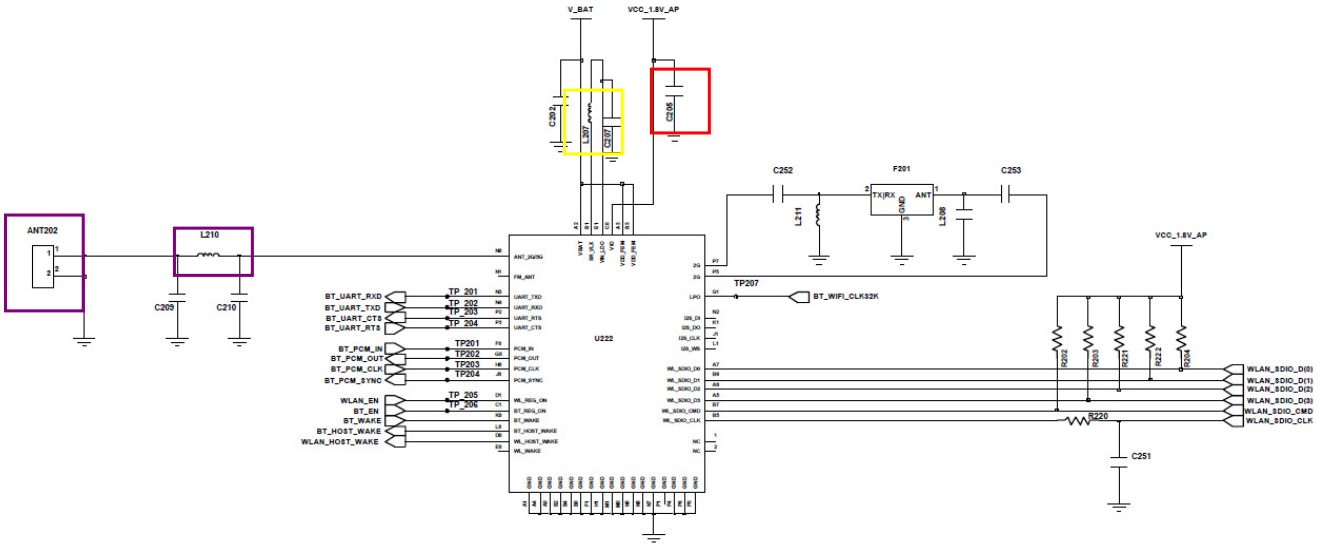

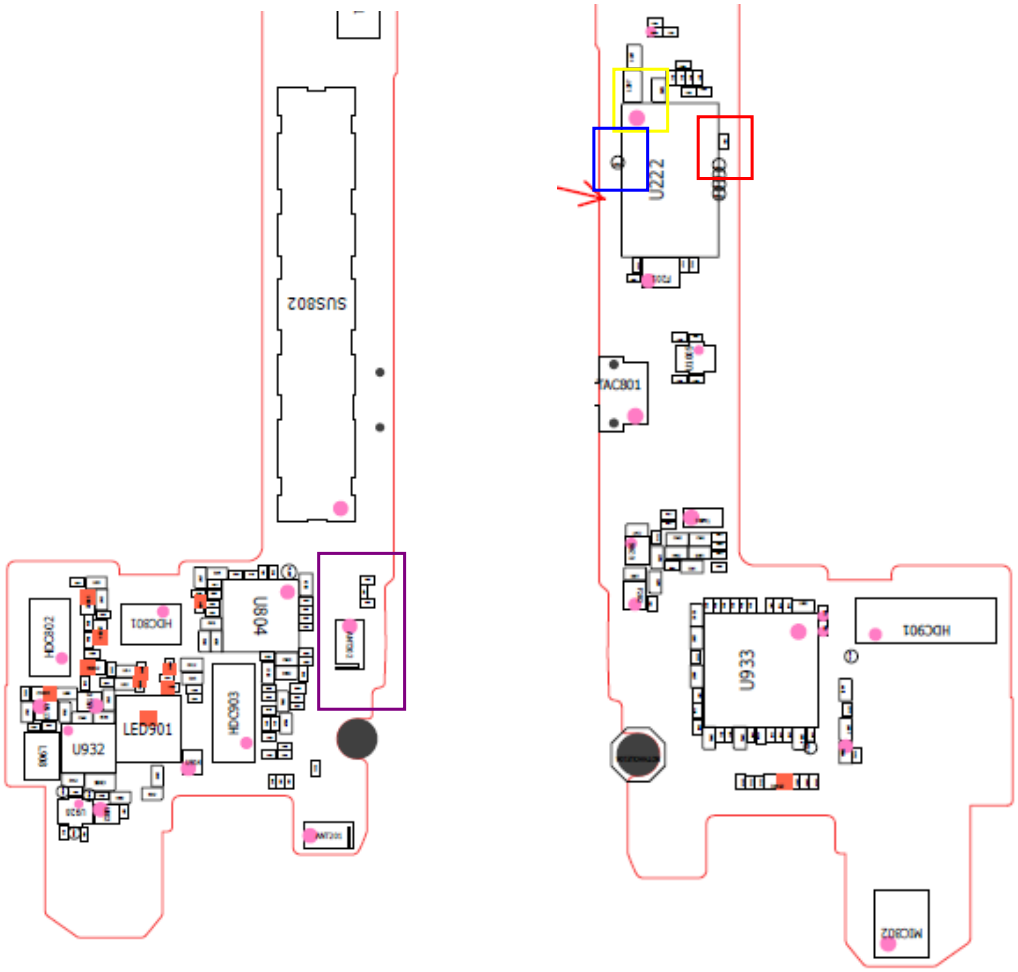

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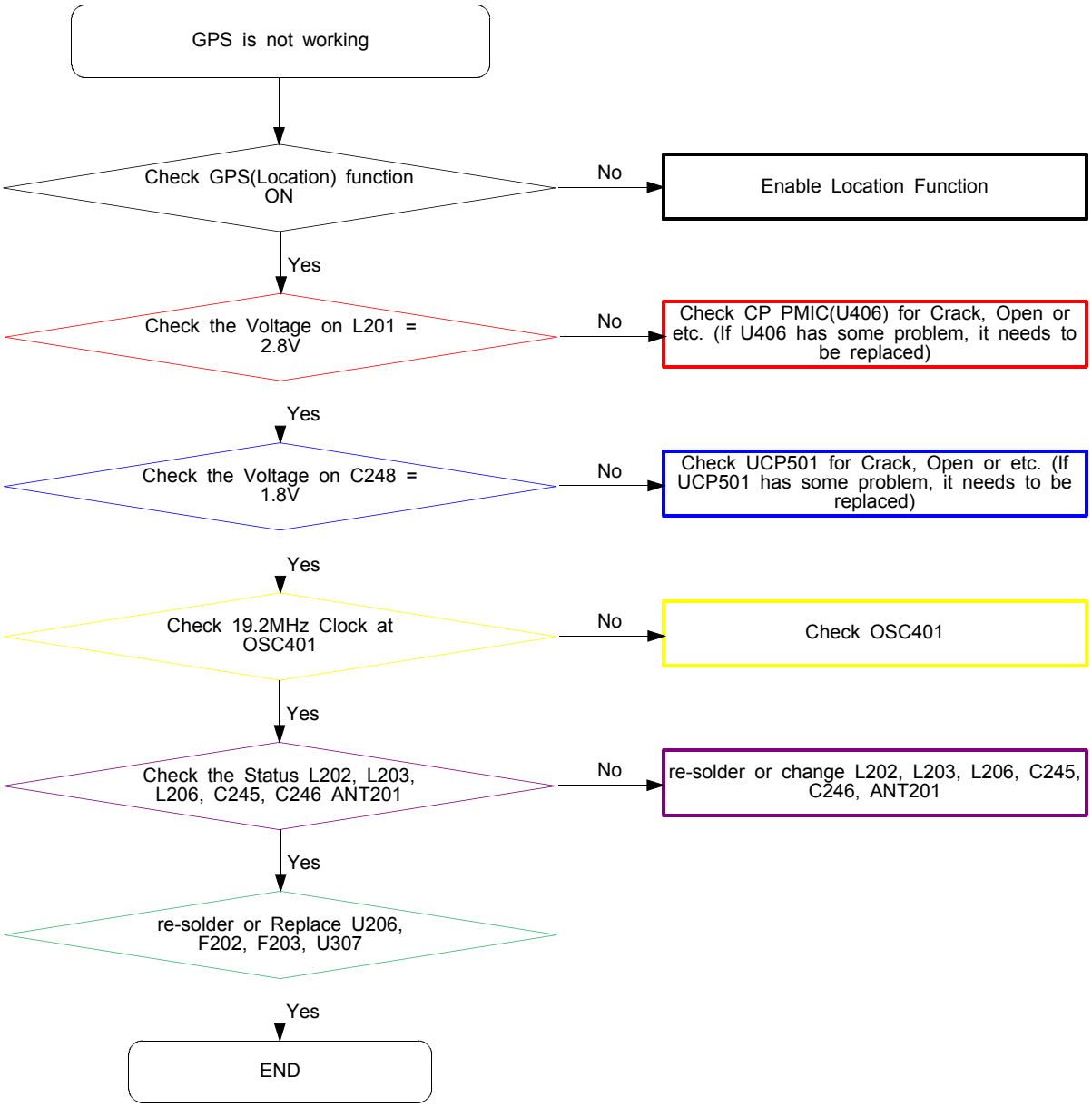
8-3-10. GPS


GPS is not working
Check GPS(Location) function ON
No
Enable Location Function
Yes
Check the Voltage on L201 = 2.8V
No
Check CP PMIC(U406) for Crack, Open or etc. (If U406 has some problem, it needs to be replaced)
Yes
Check the Voltage on C248 = 1.8V
No
Check UCP501 for Crack, Open or etc. (If UCP501 has some problem, it needs to be replaced)
Yes
Check 19.2MHz Clock at OSC401
No
Check OSC401
Yes
Check the Status L202, L203, L206, C245, C246 ANT201
No
re-solder or change L202, L203, L206, C245, C246, ANT201
Yes
re-solder or Replace U206, F202, F203, U307
Yes
END

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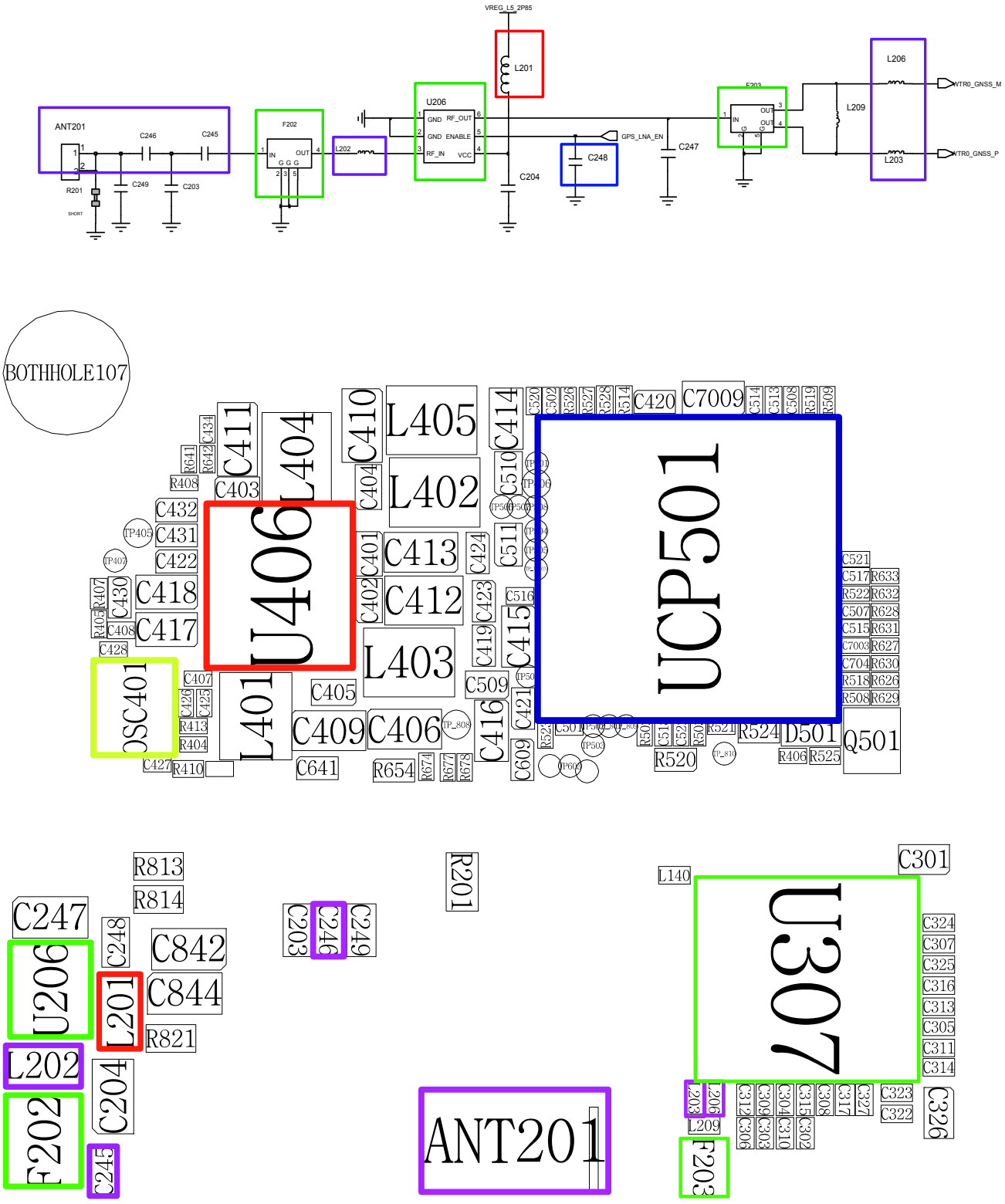

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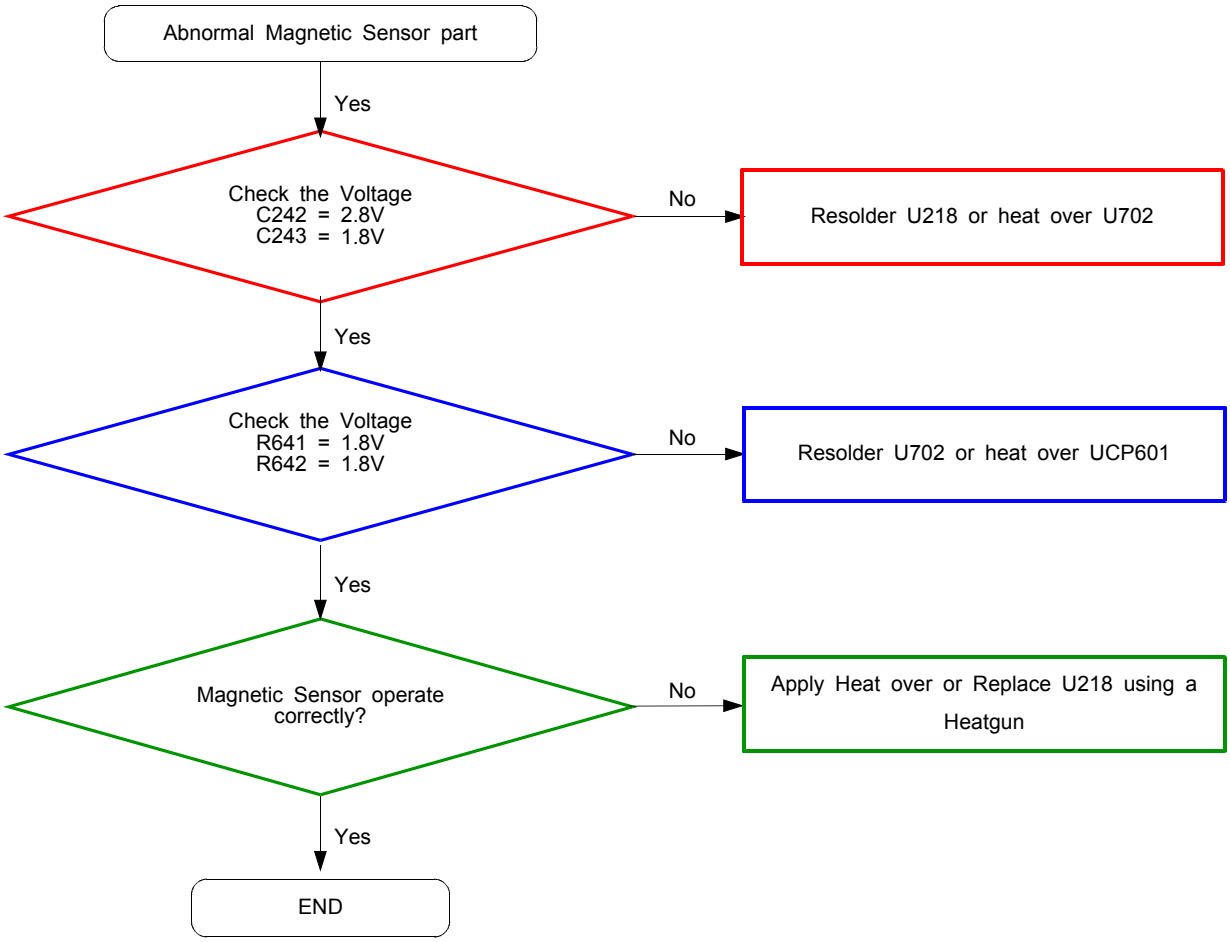
8-3-11.Sensor Part

1. Magnetic Sensor



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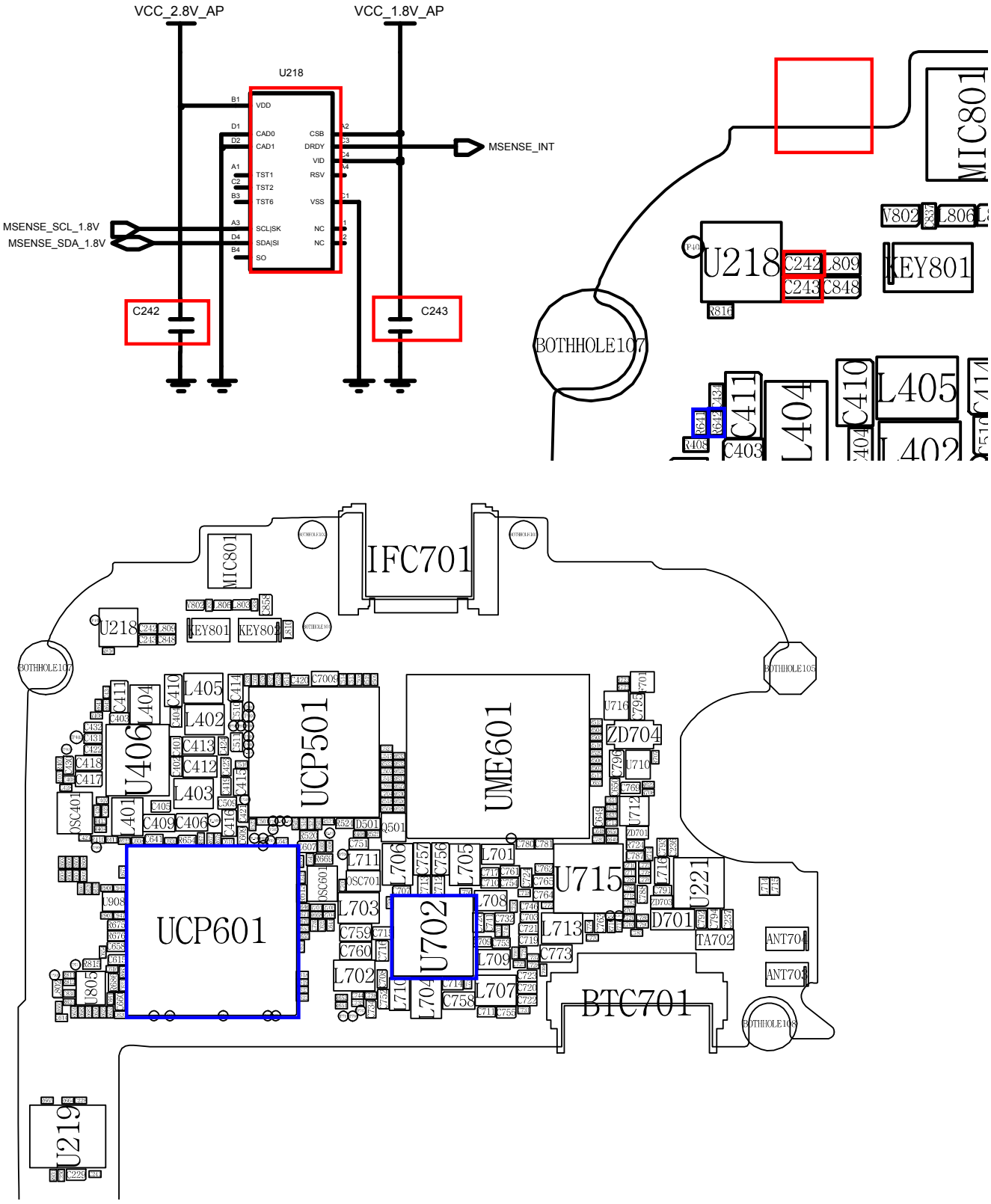

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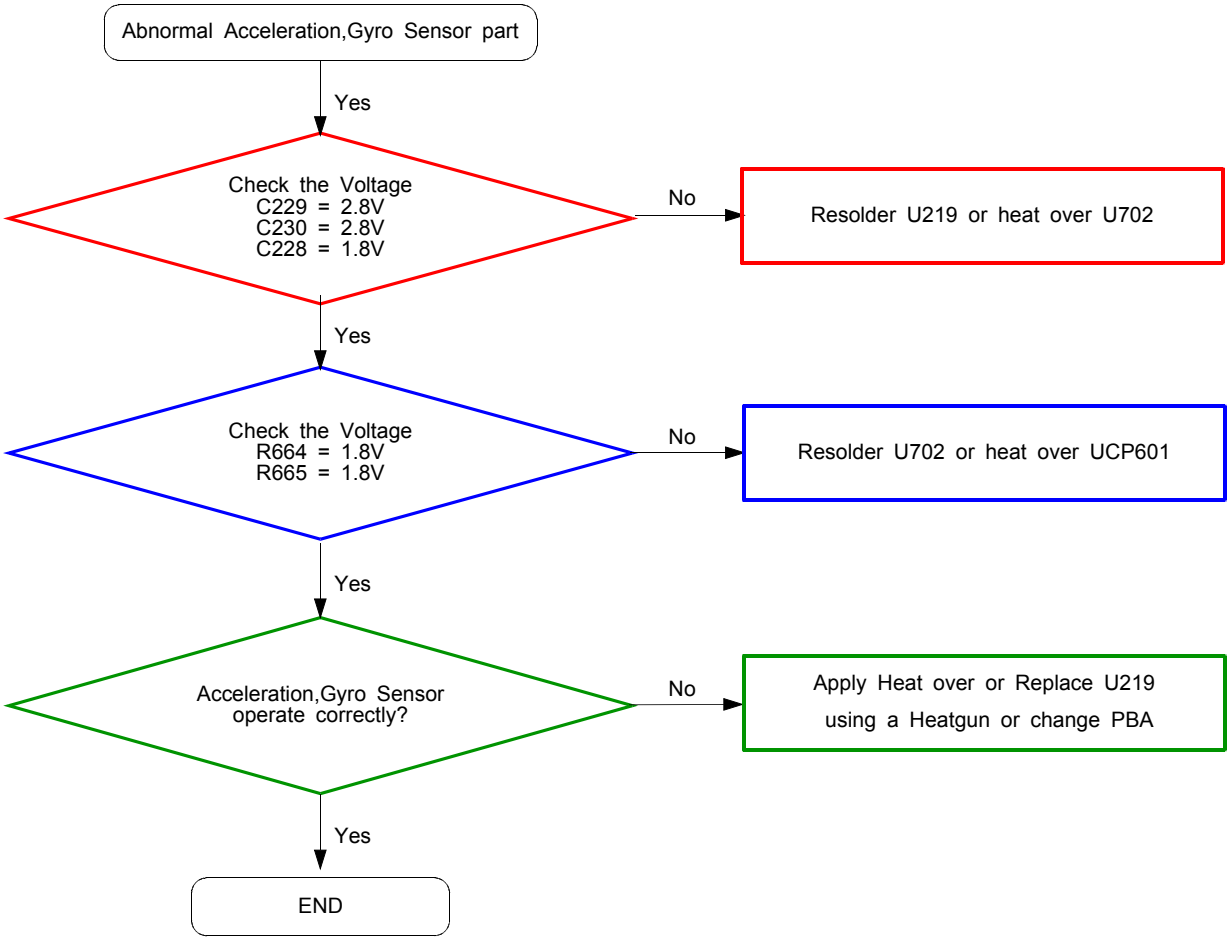
2. Acceleration , Gyro Sensor



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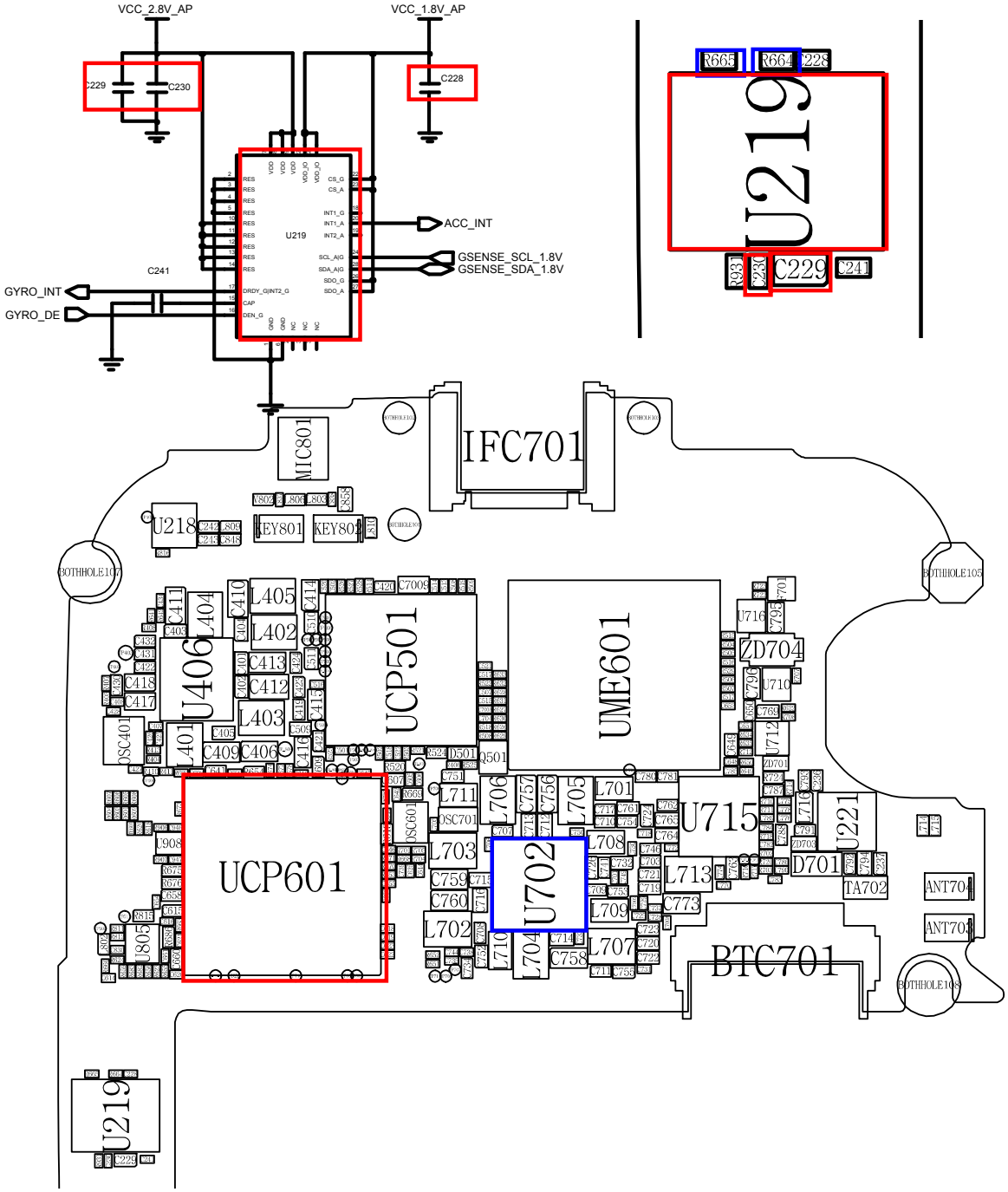

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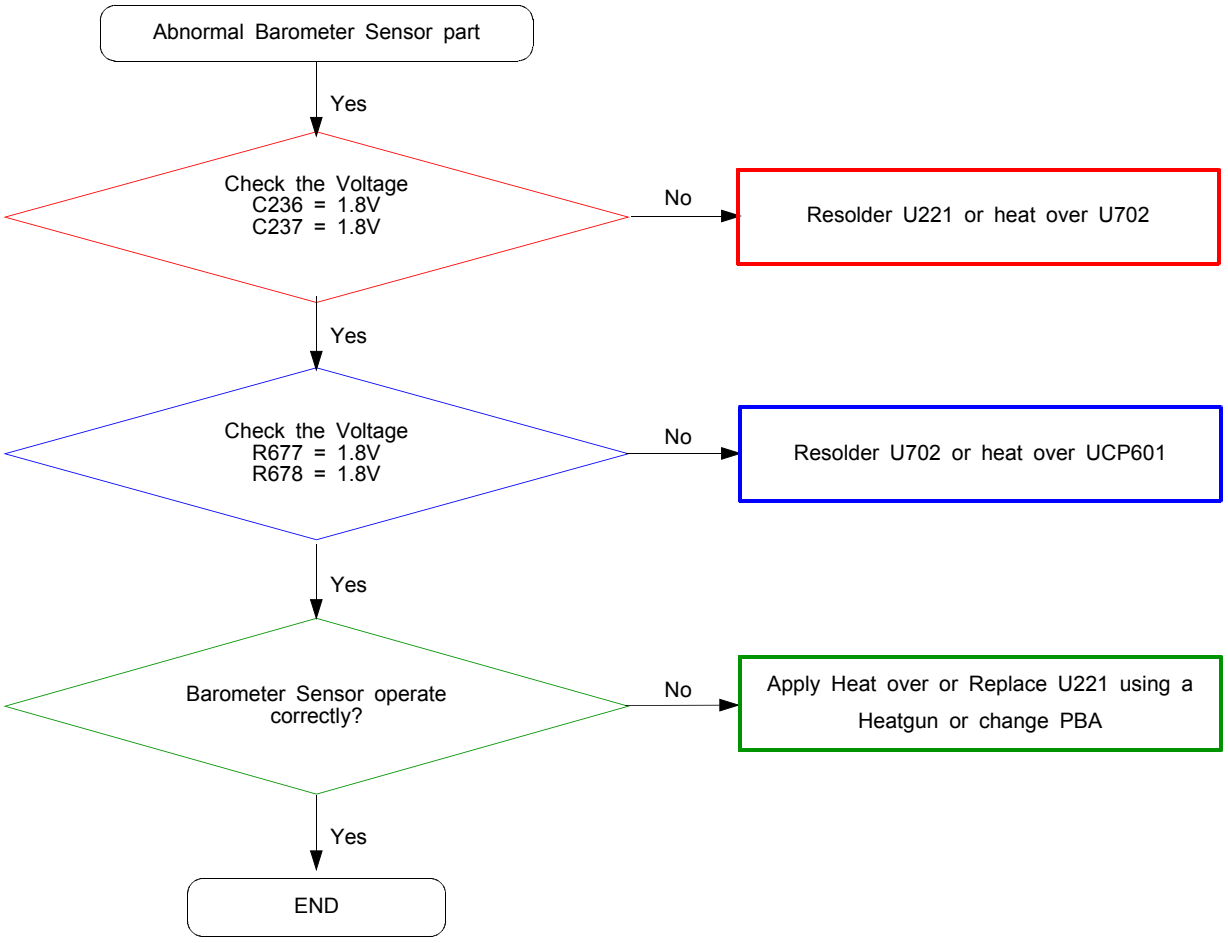
3. Barometer Sensor



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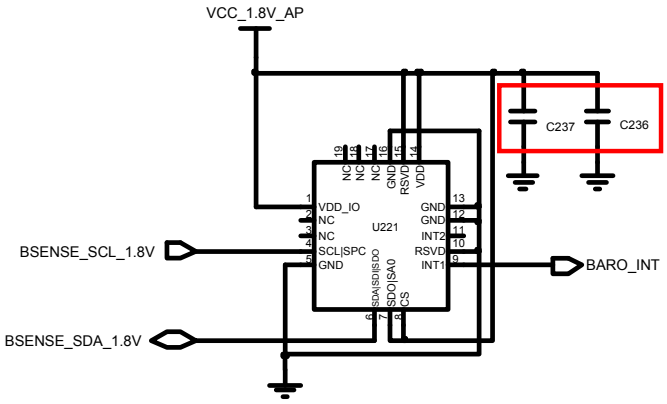

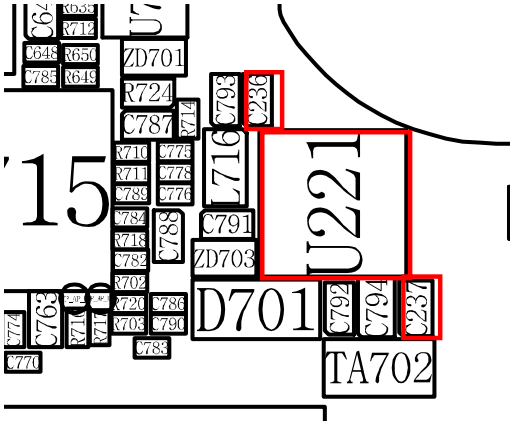

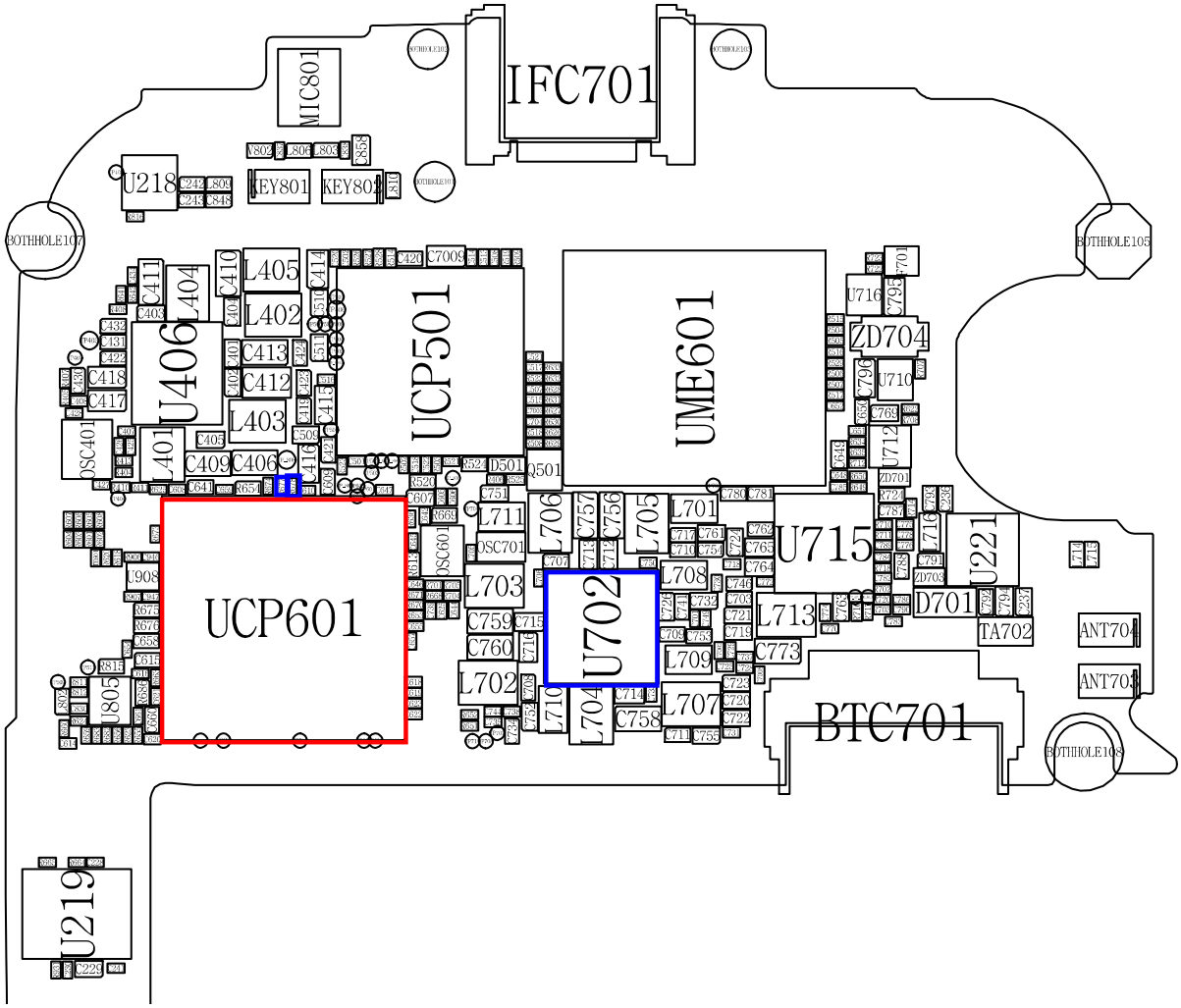

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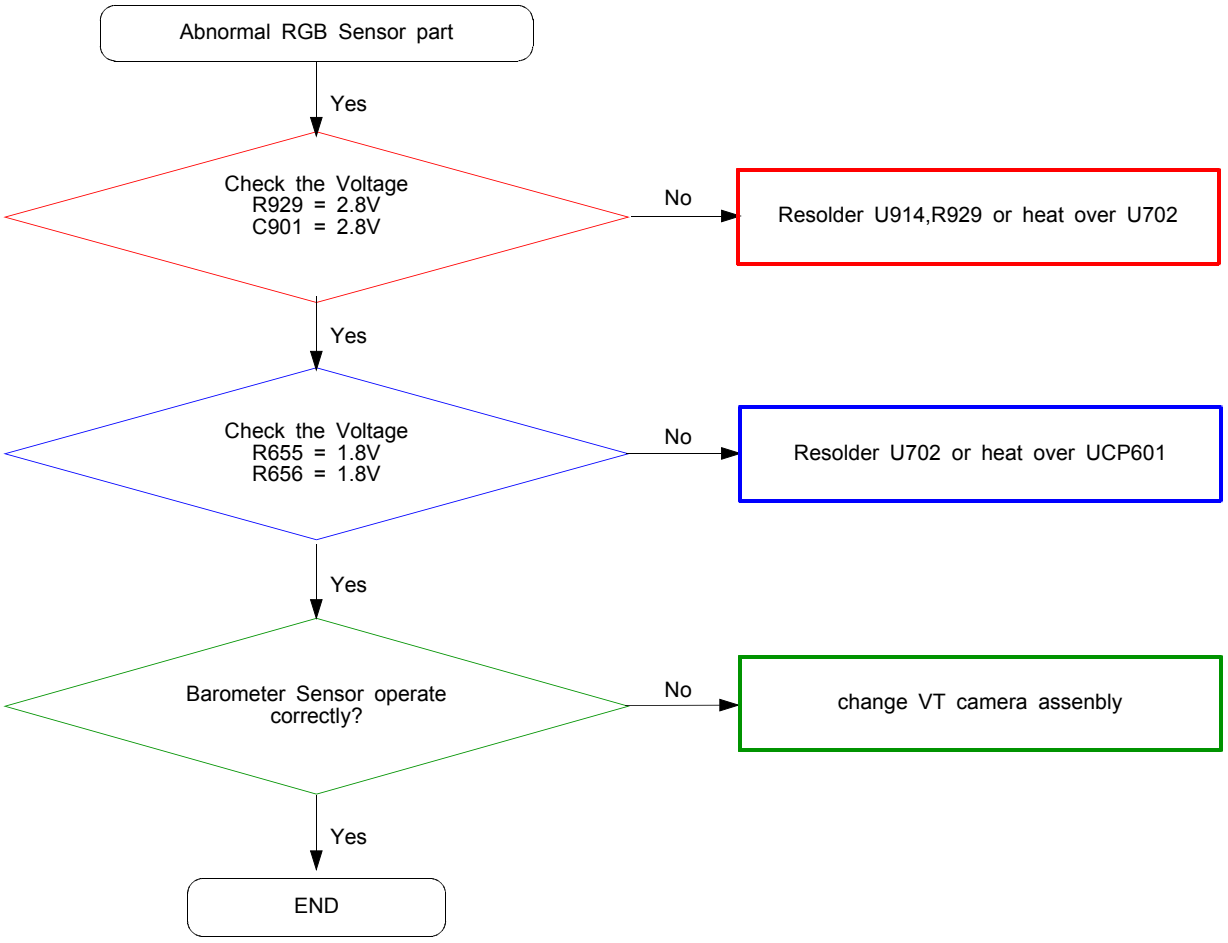
4. RGB Sensor



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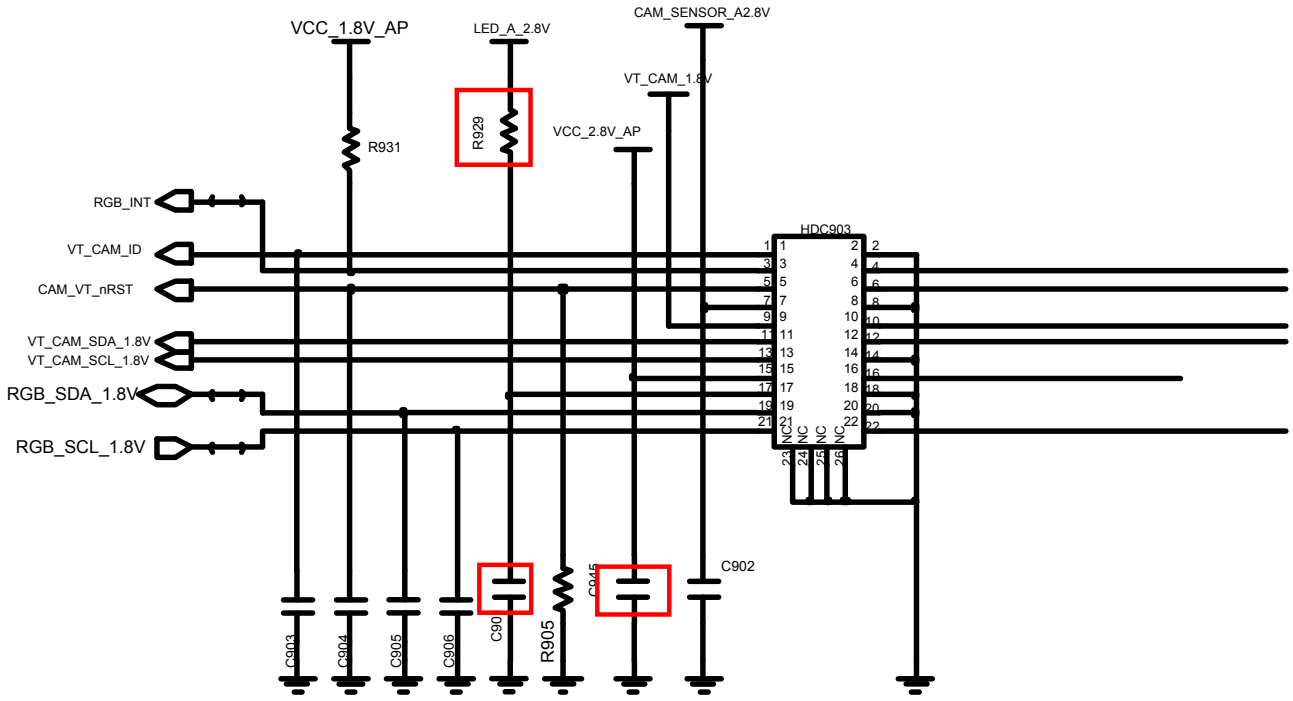

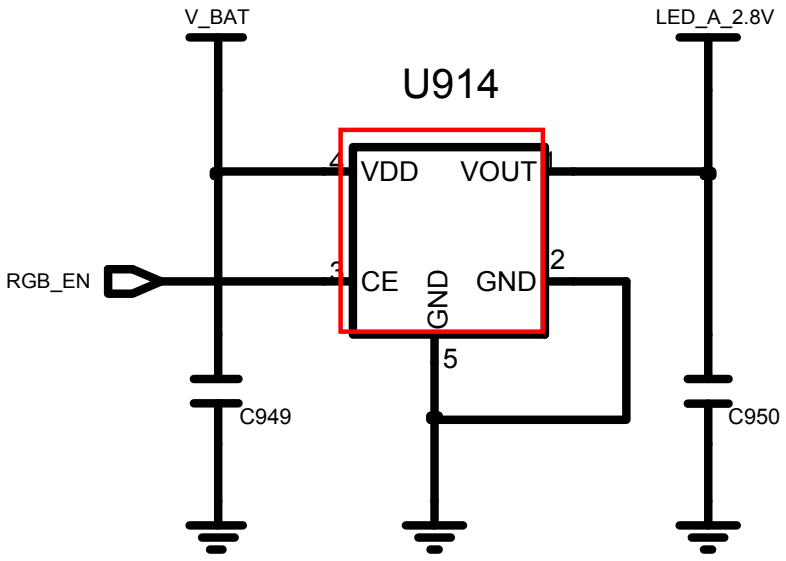

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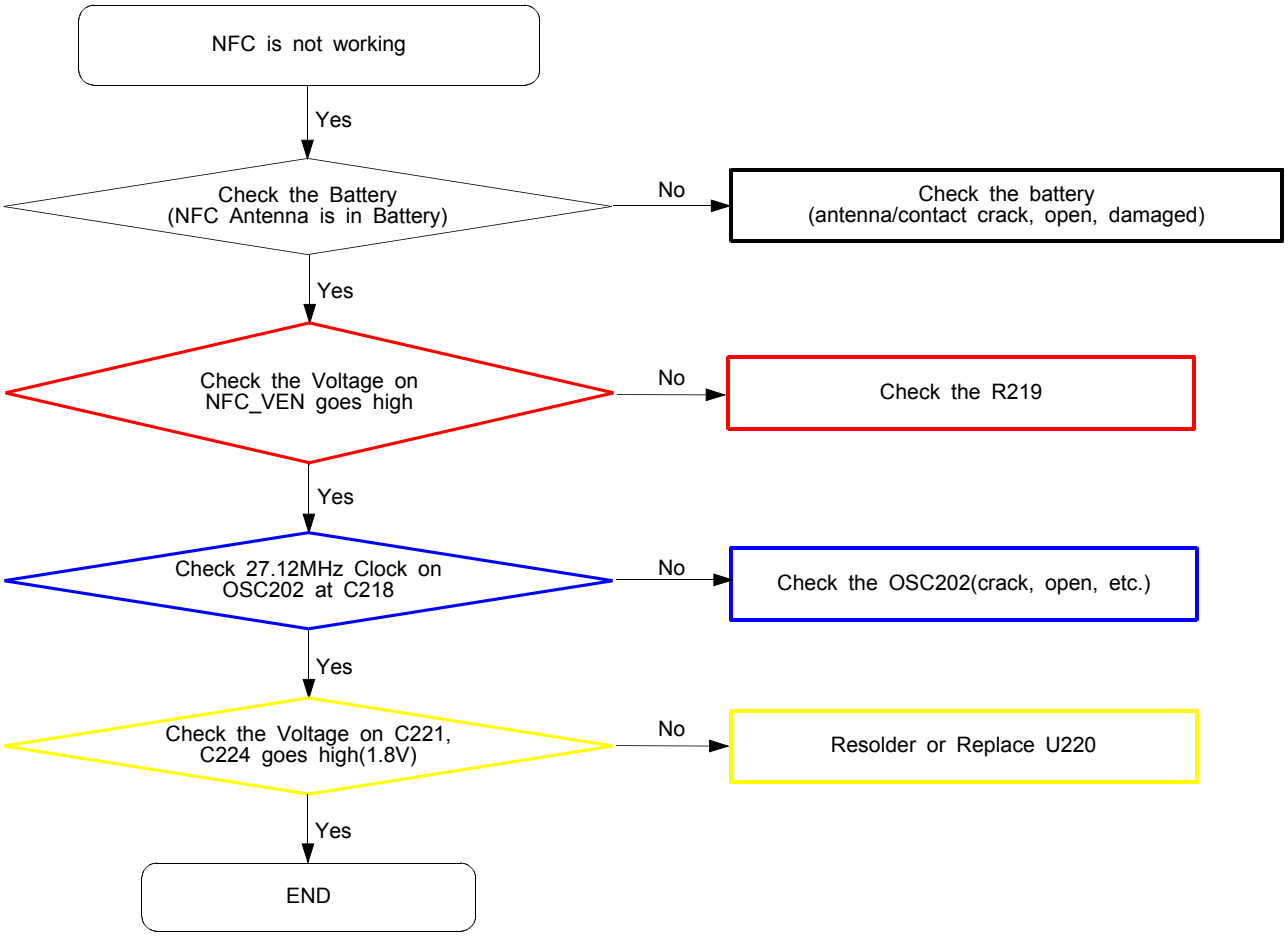
8-3-12. NFC



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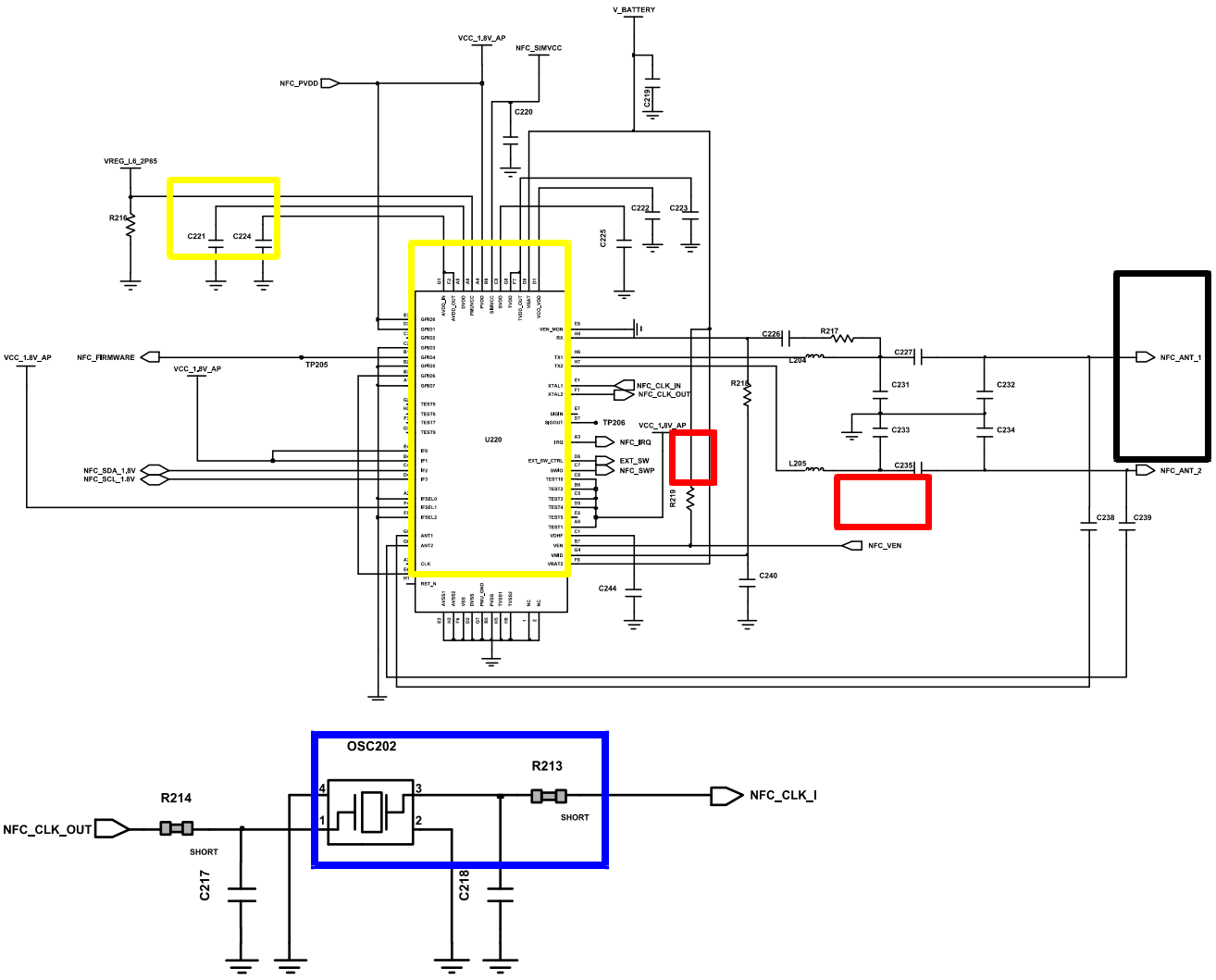

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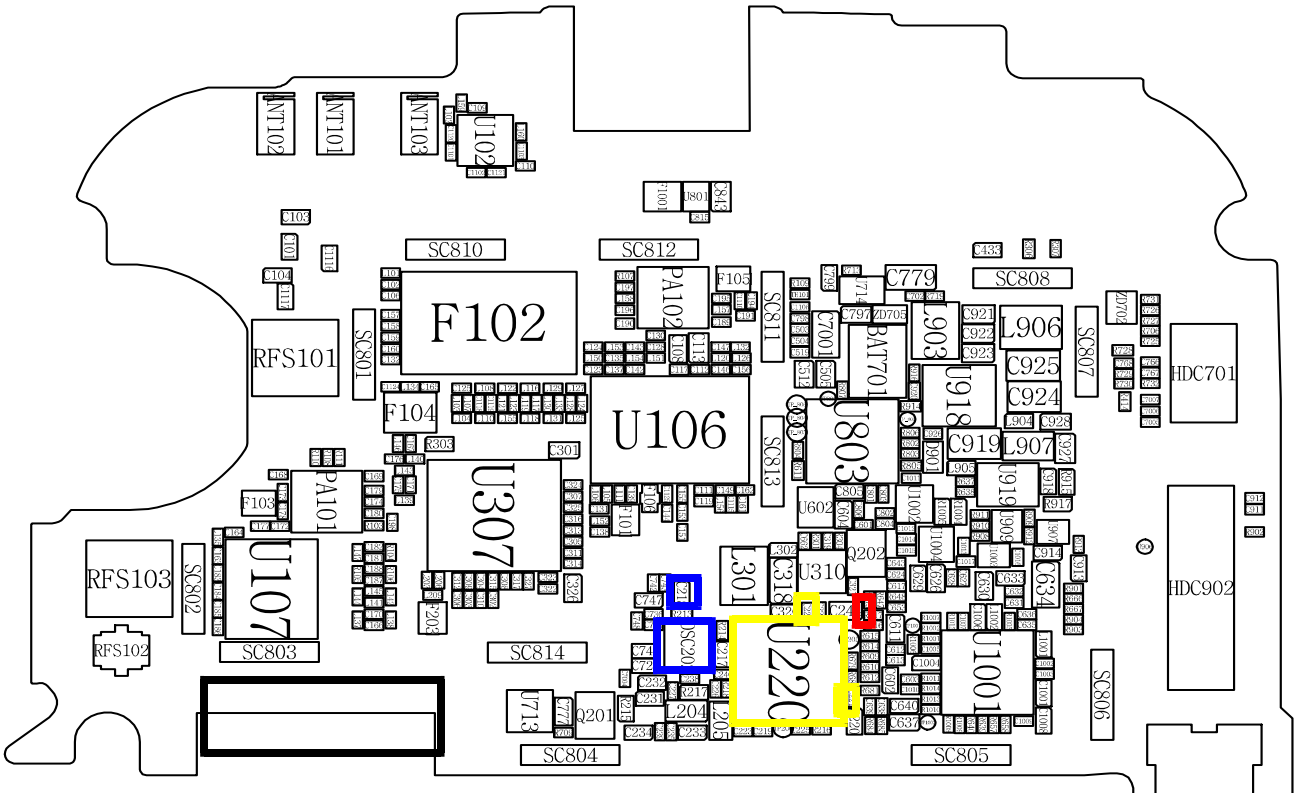

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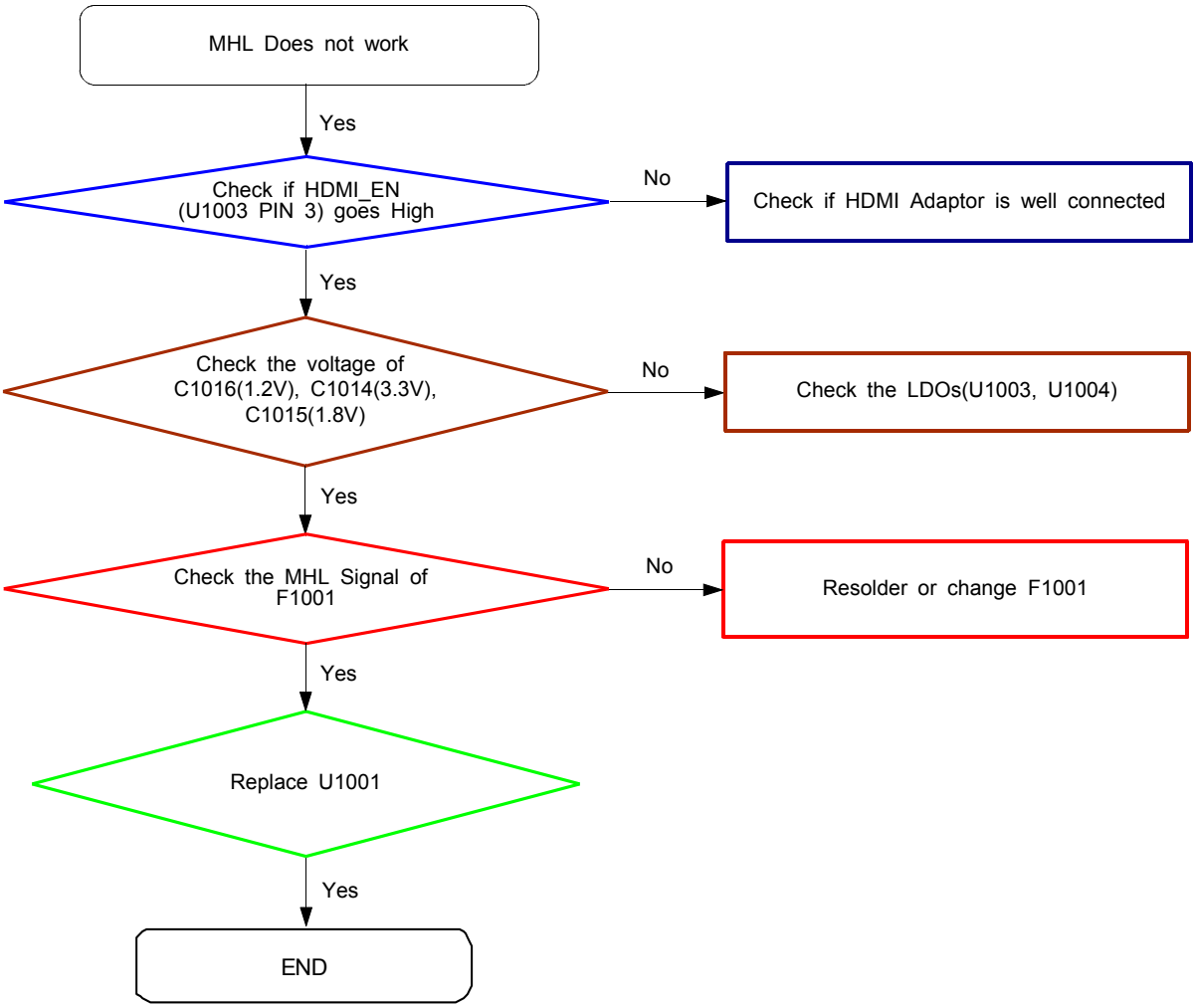
8-3-13. MHL



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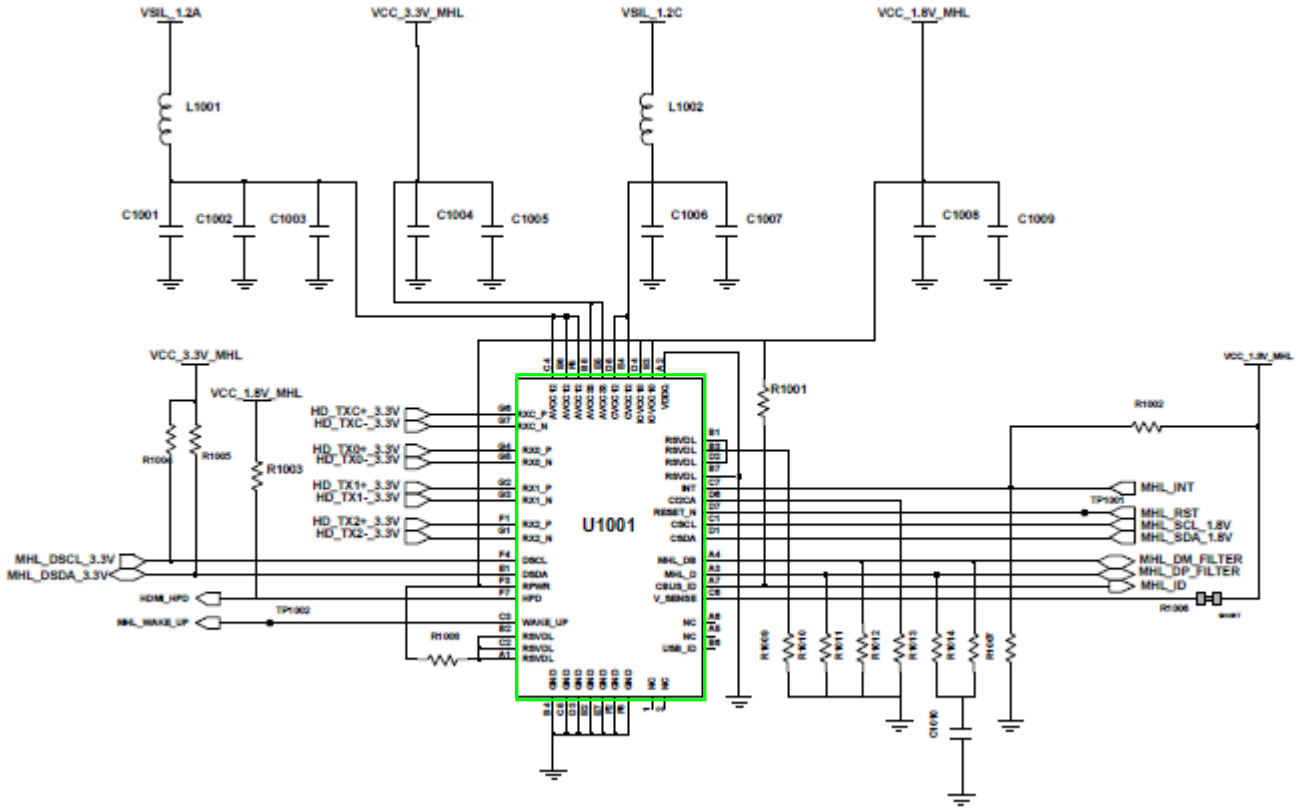

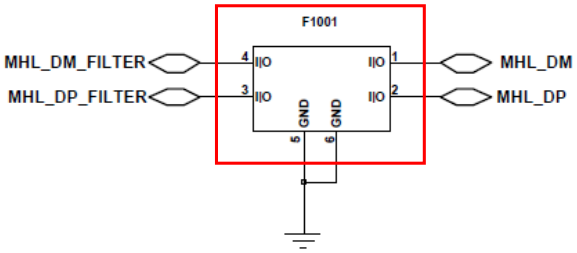

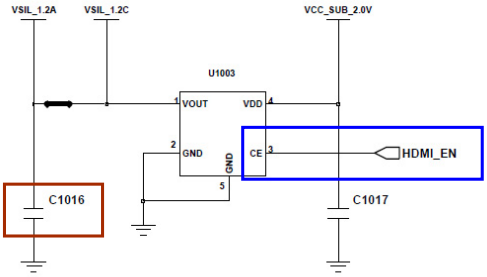

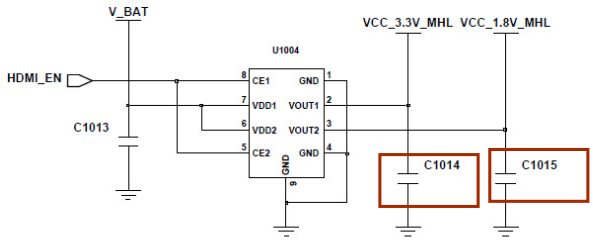

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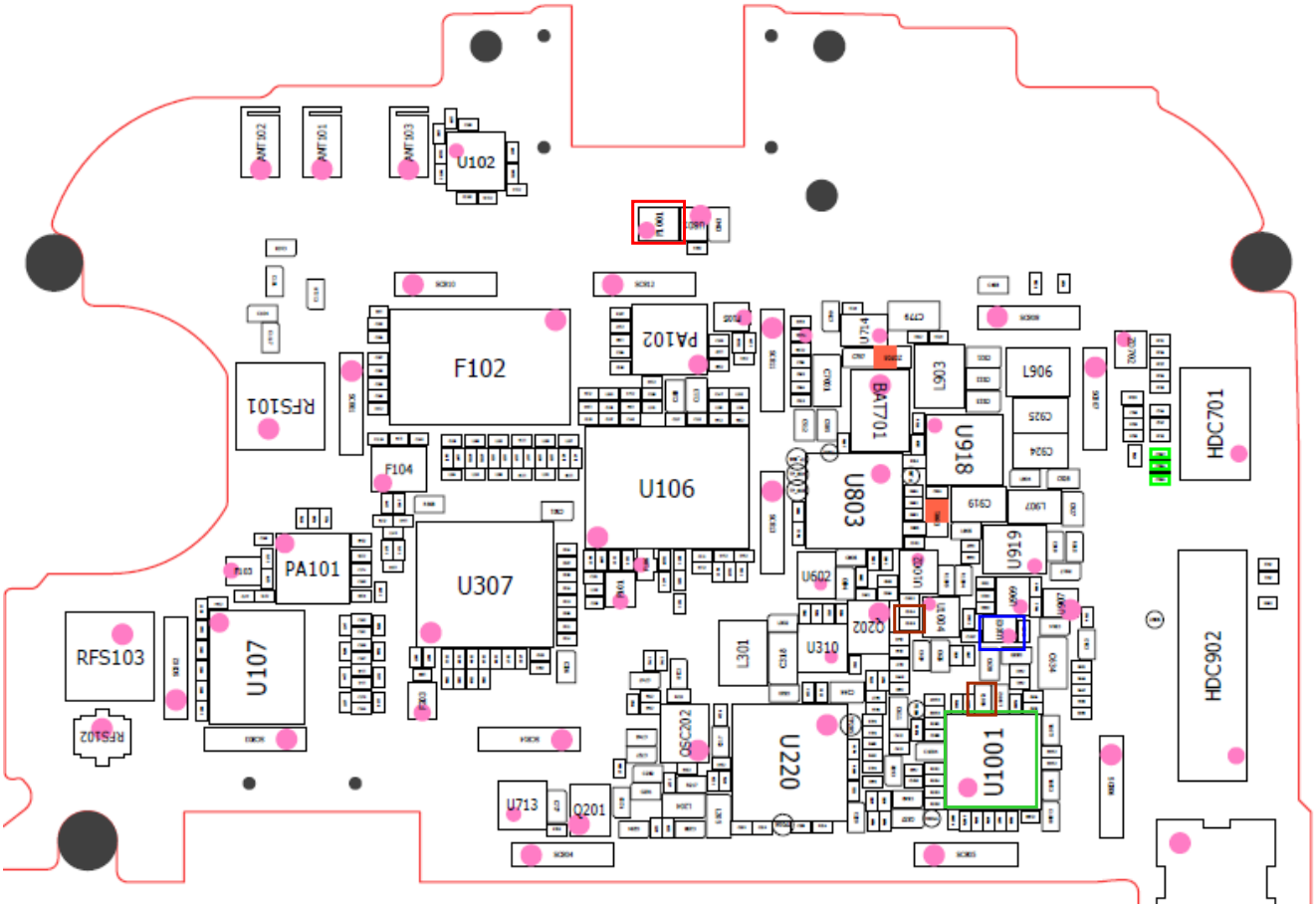

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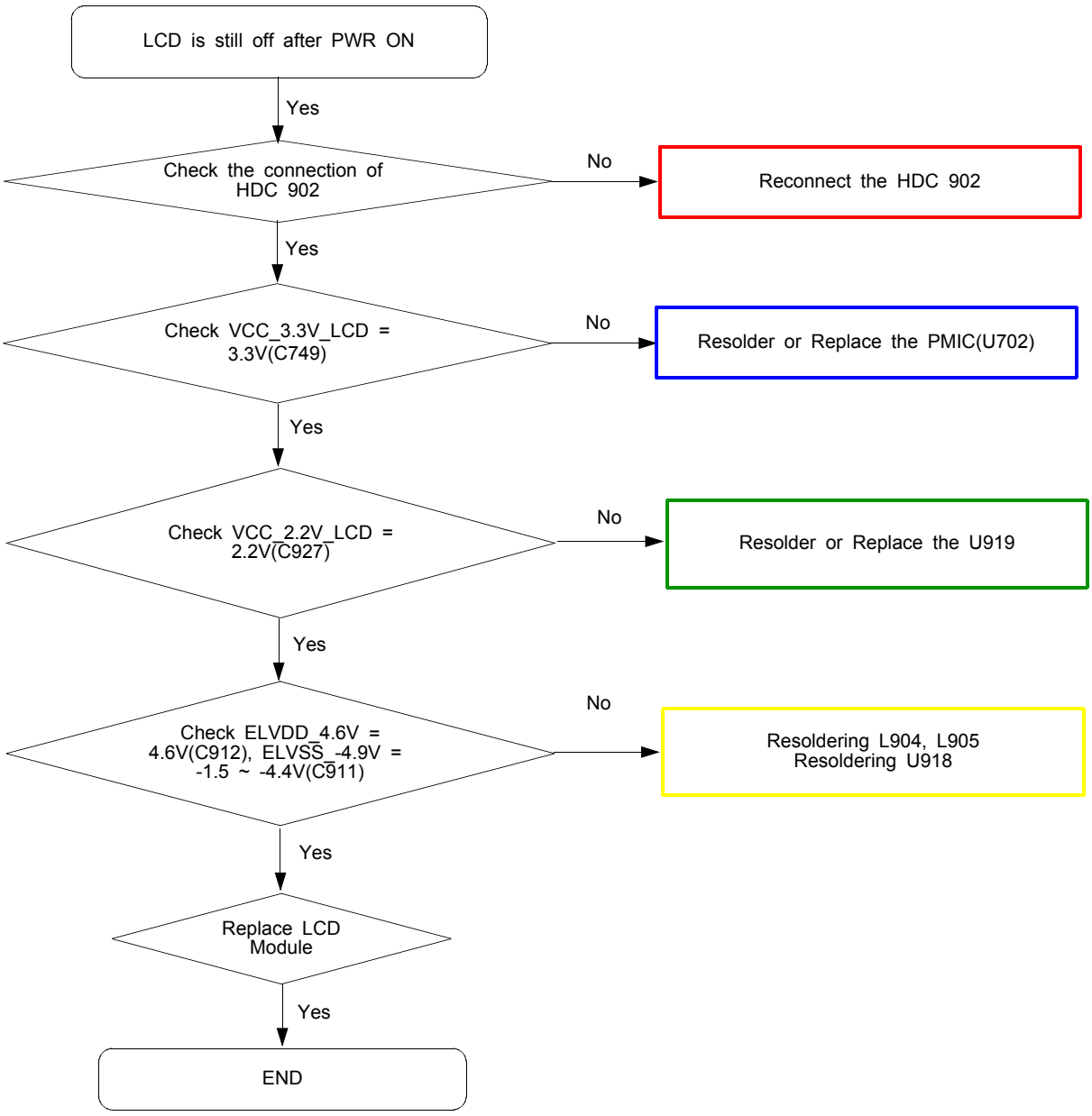
8-3-14. LCD



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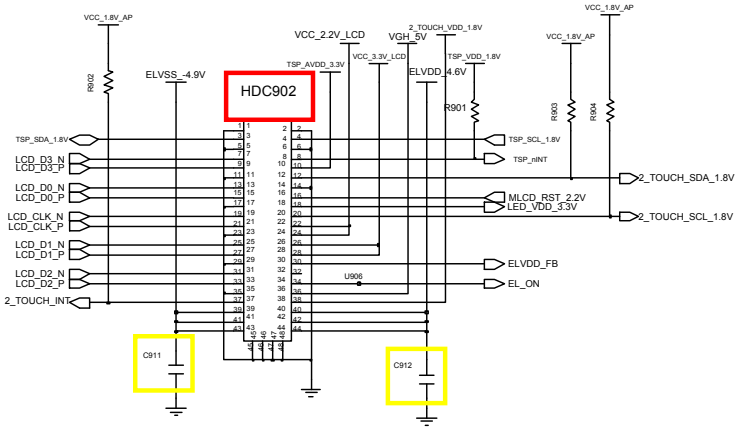

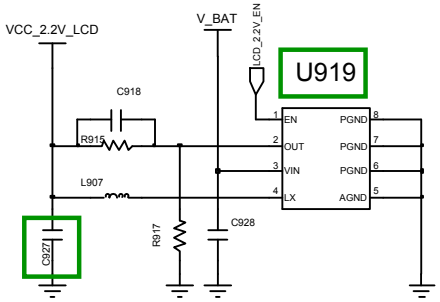

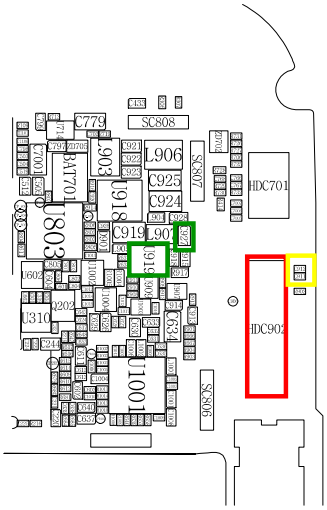

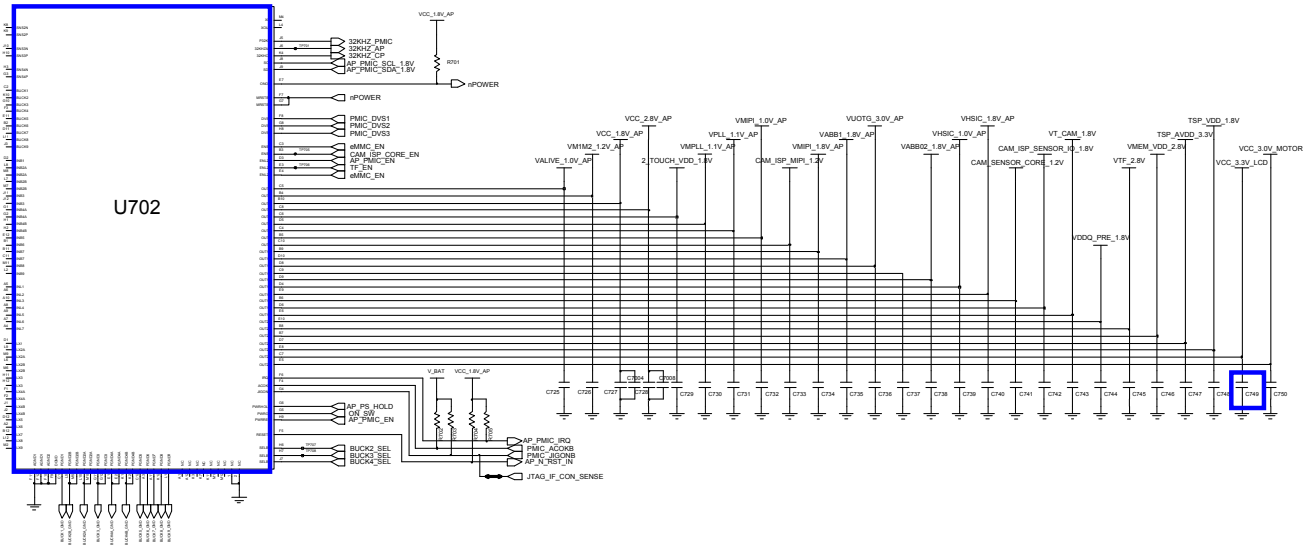

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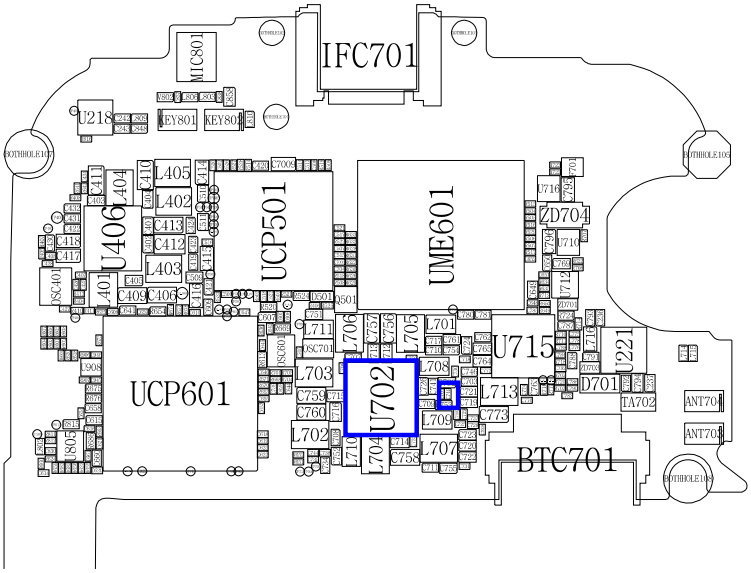

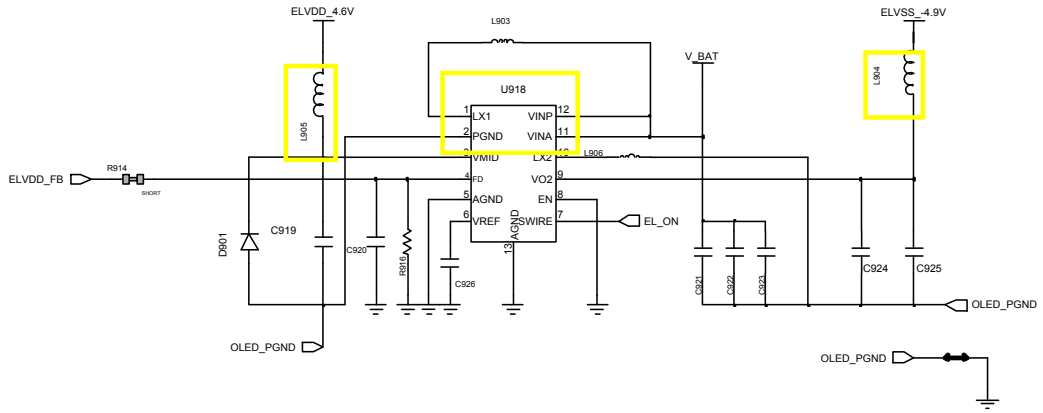

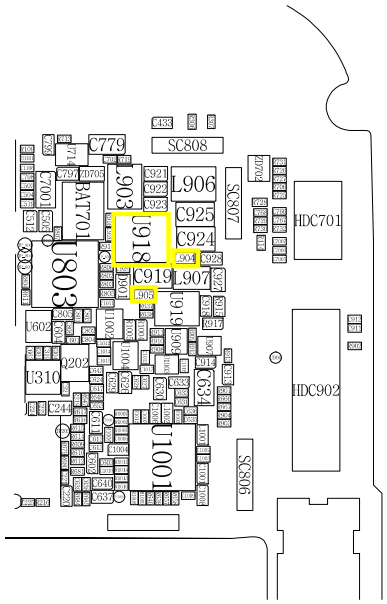

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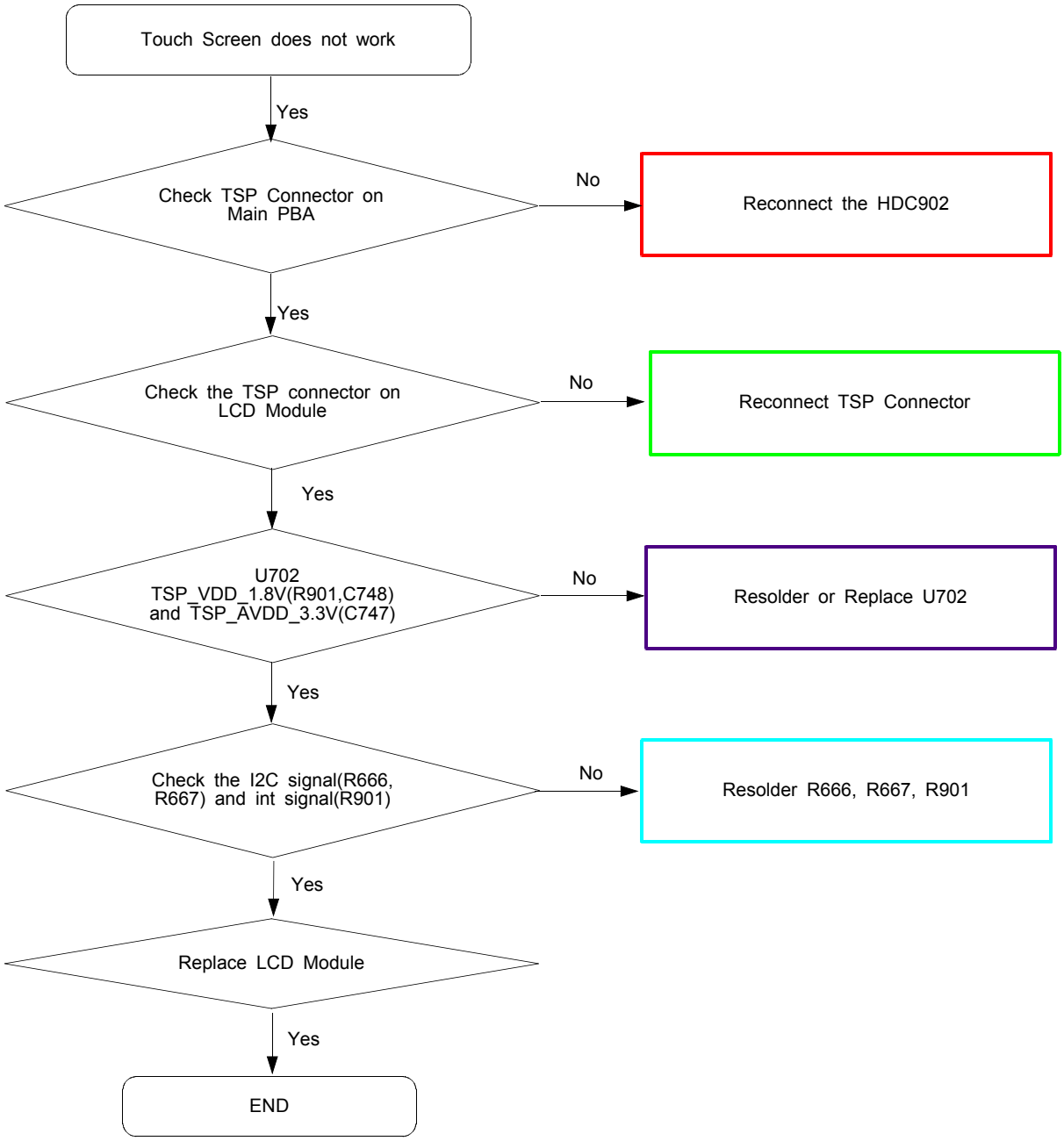
8-3-15. TSP



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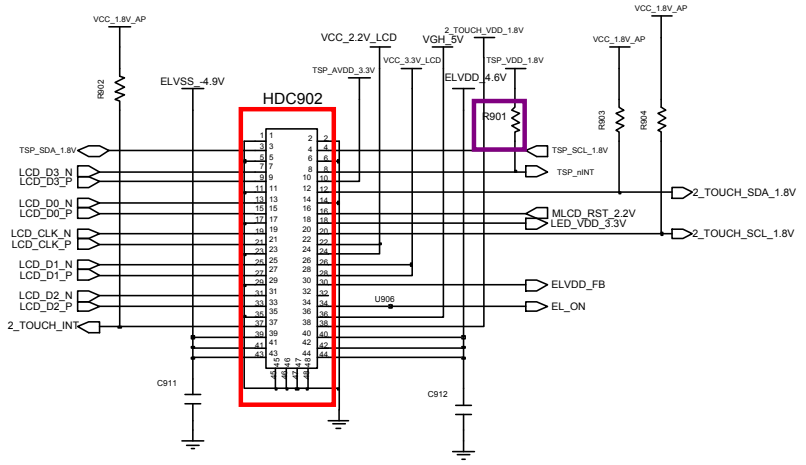

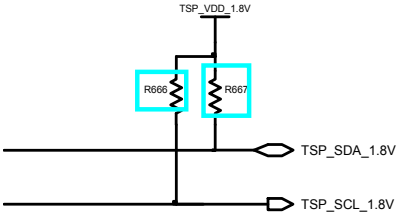

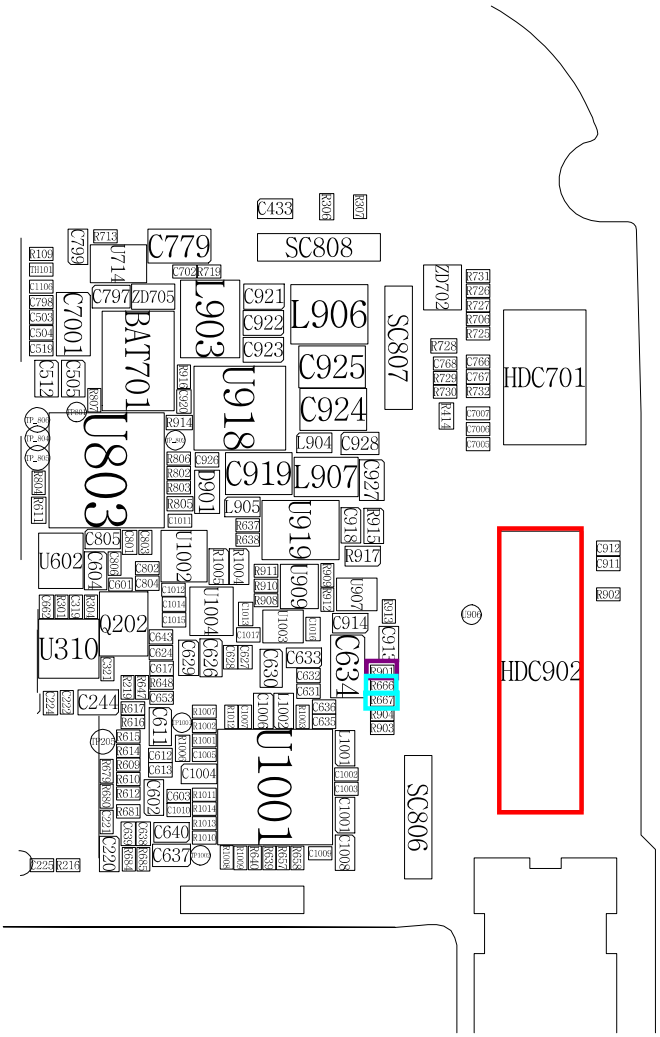

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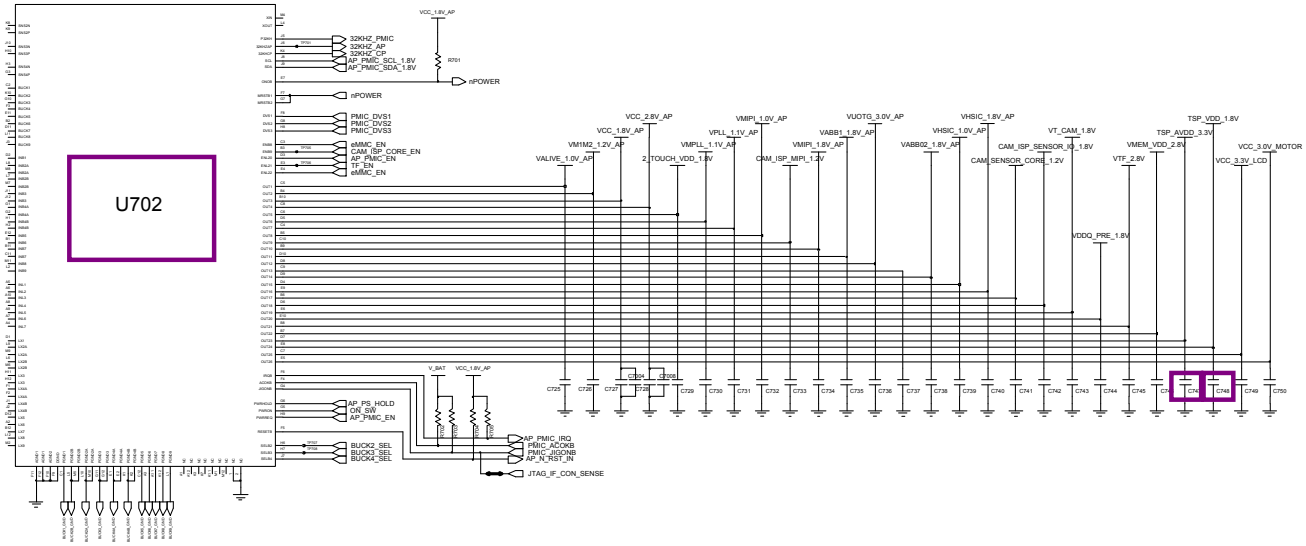

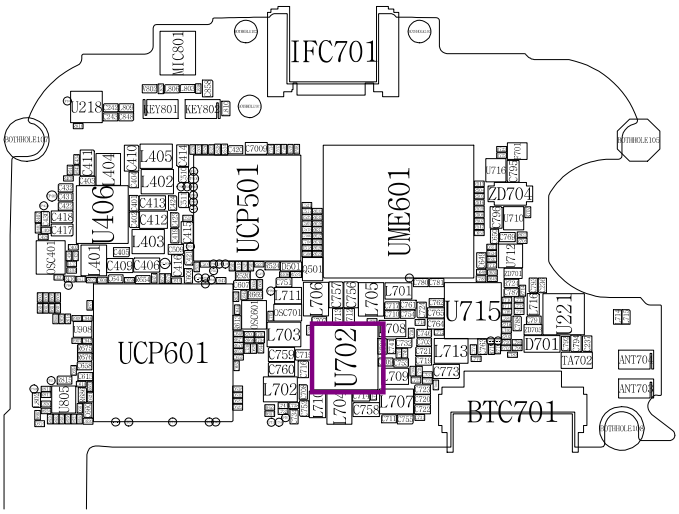

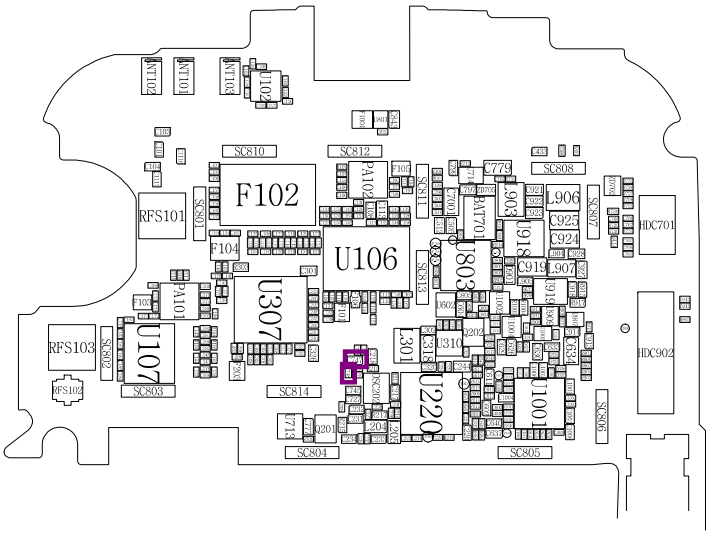

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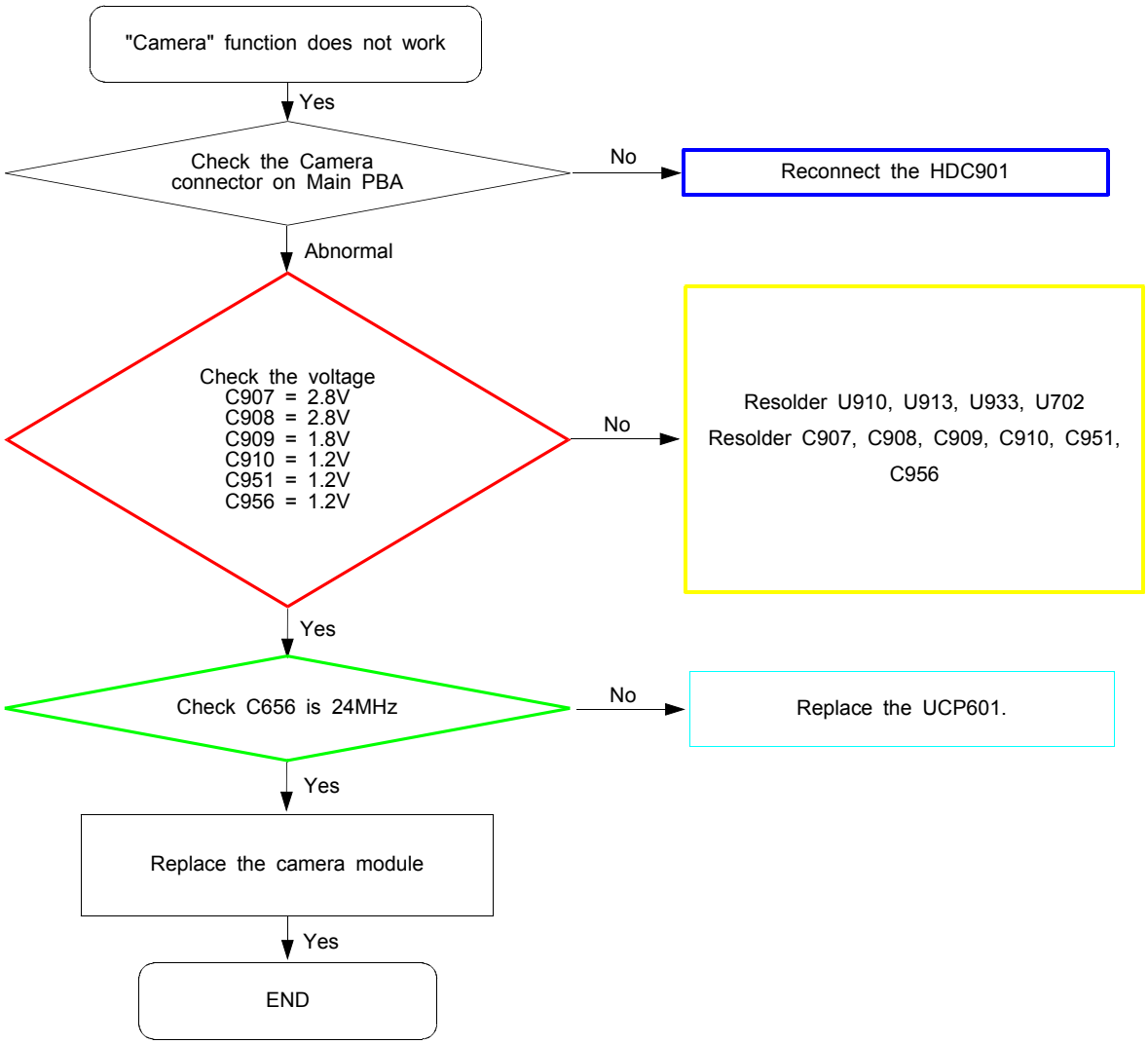
8-3-16. 8M CAM



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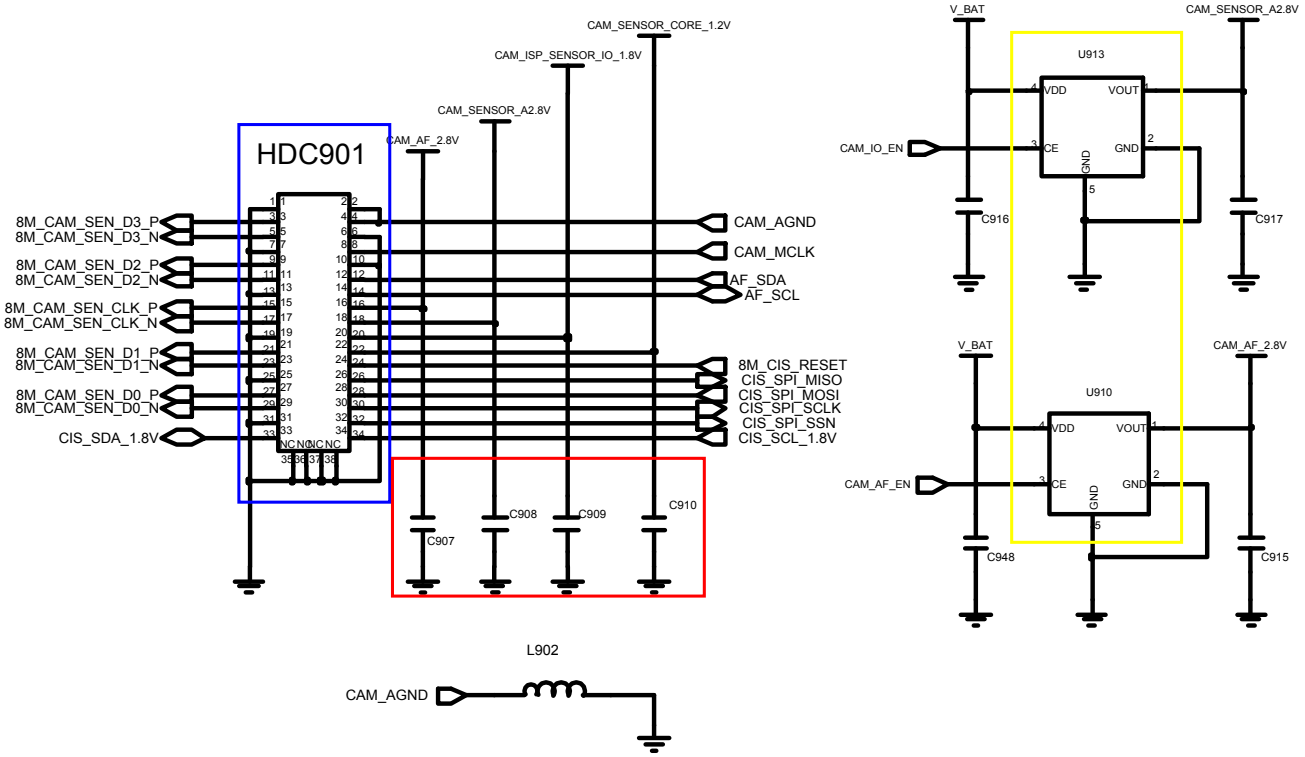

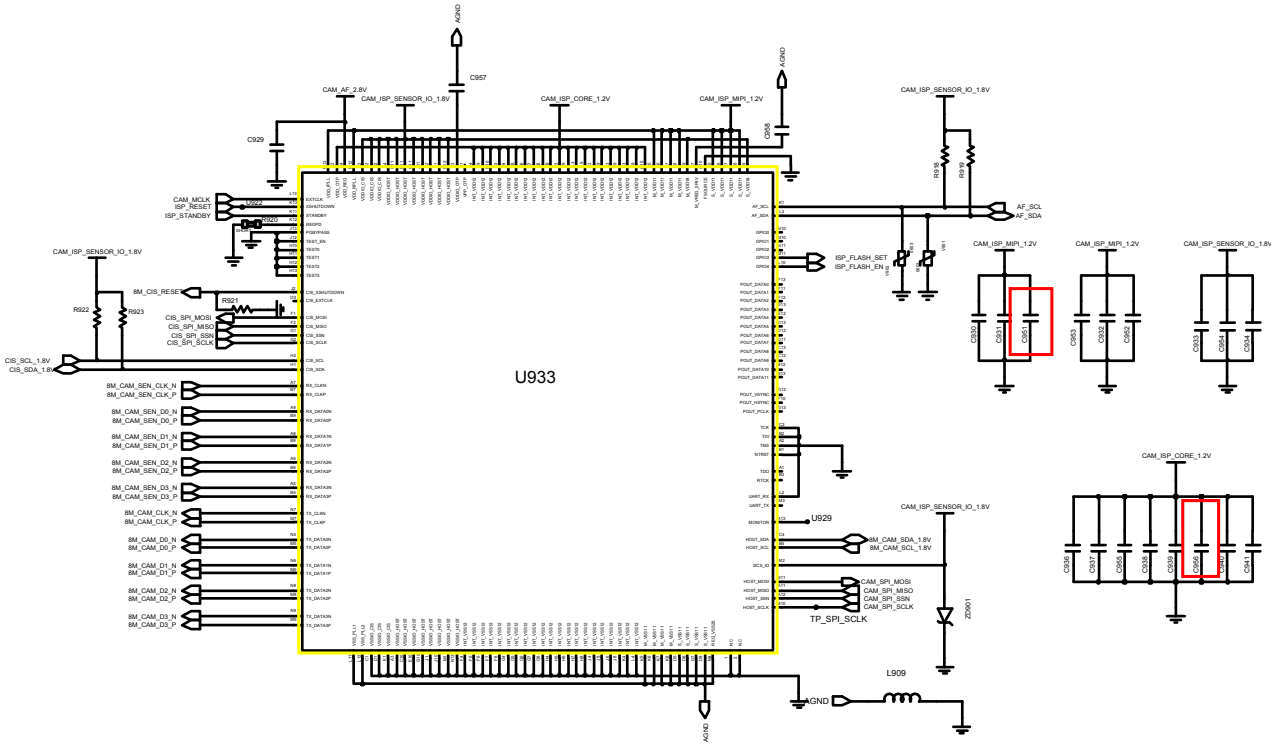

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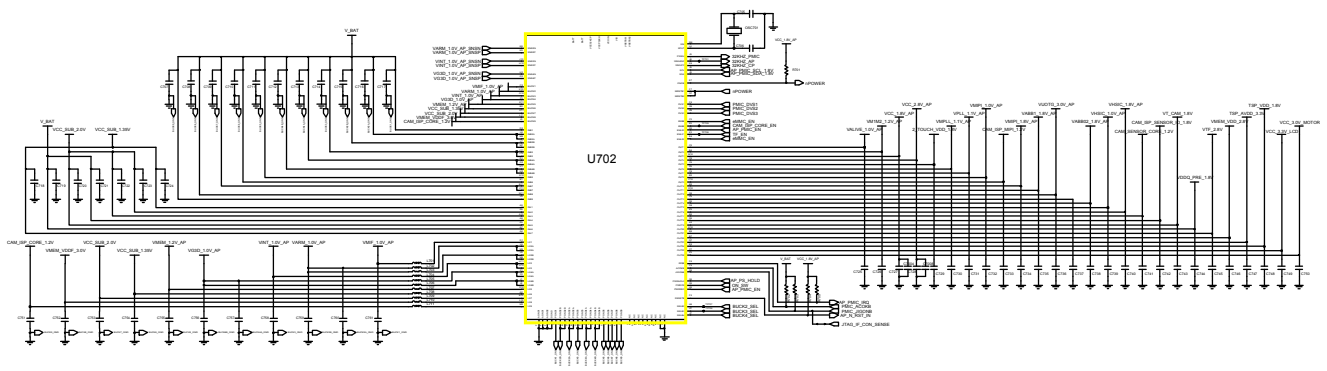

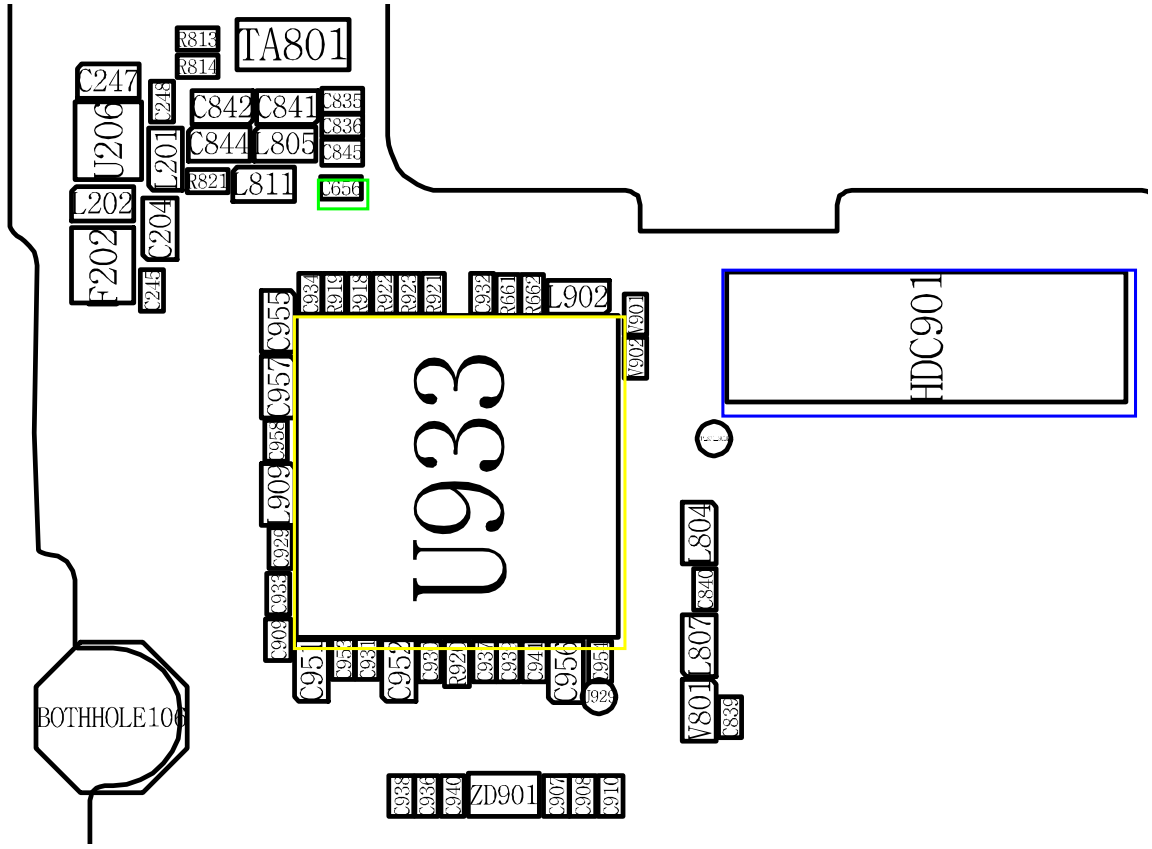

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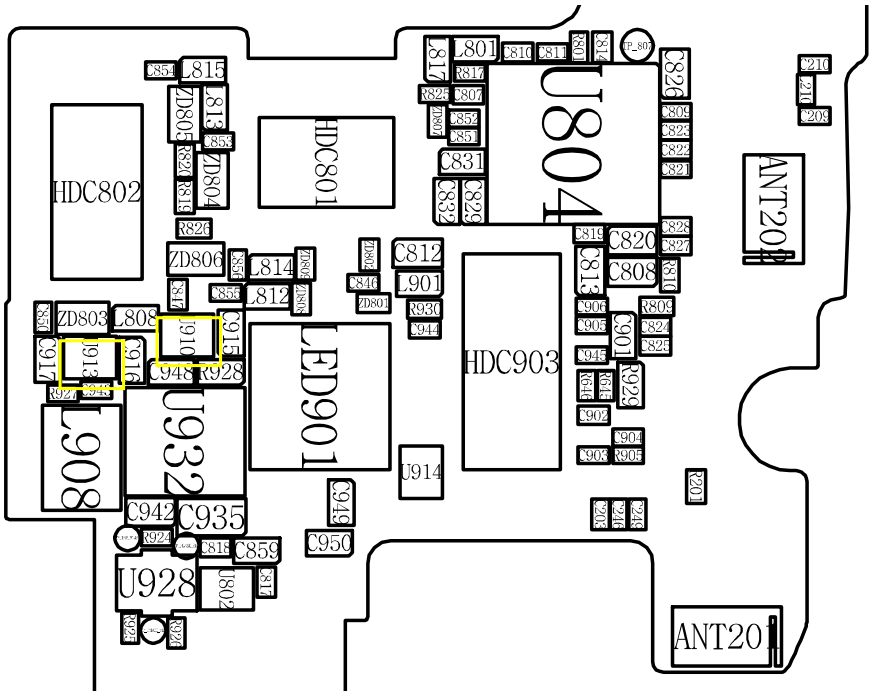

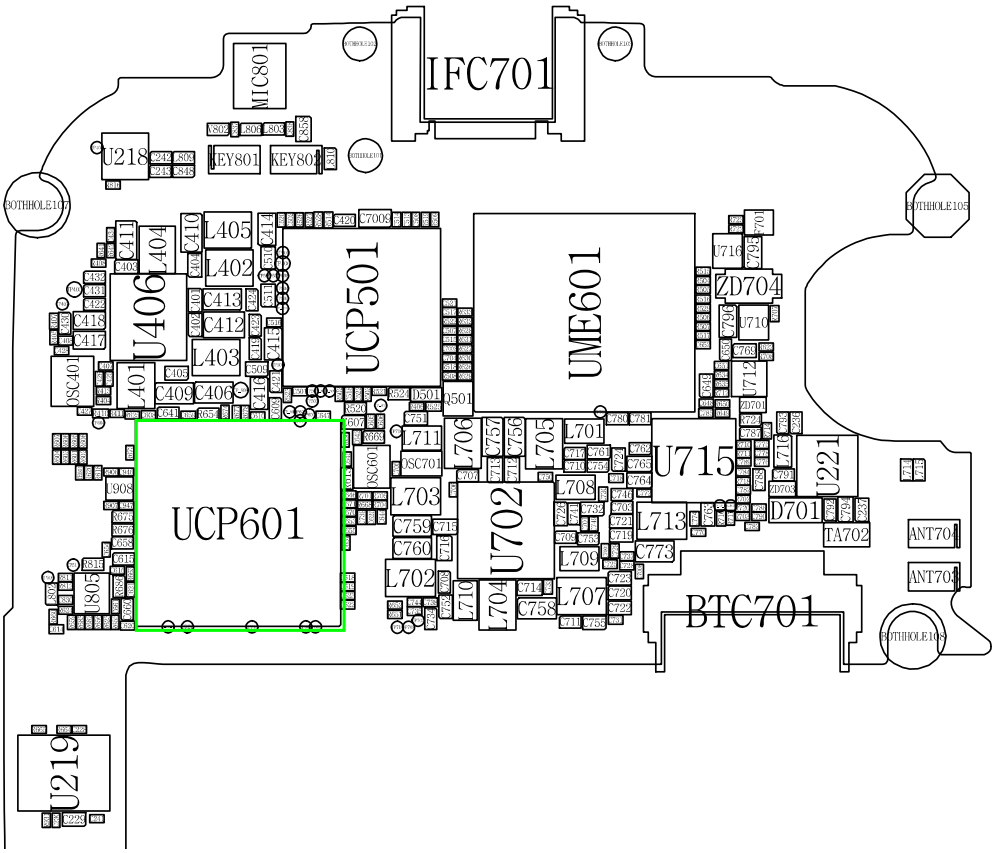

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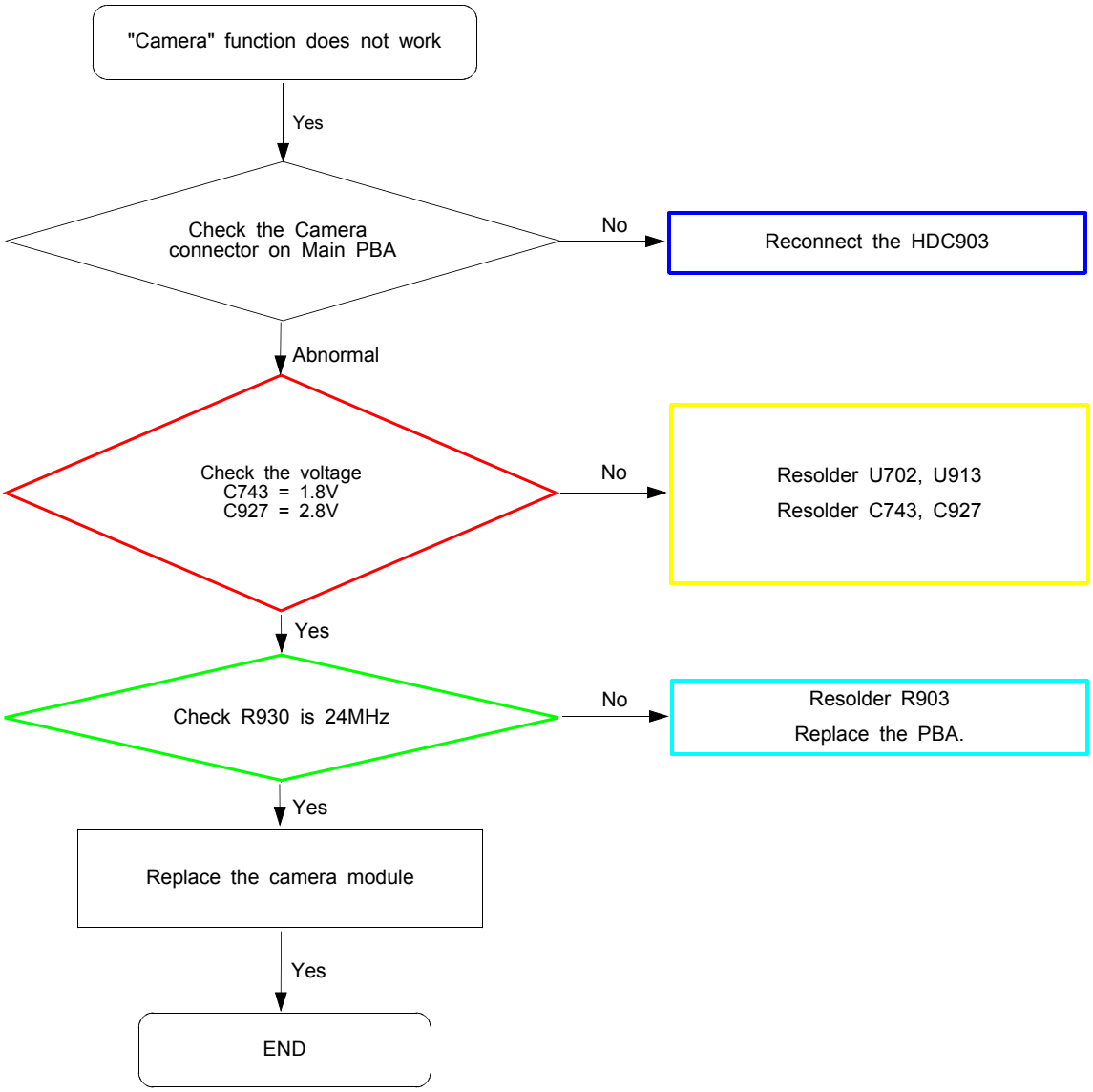
8-3-17. 1.9M CAM



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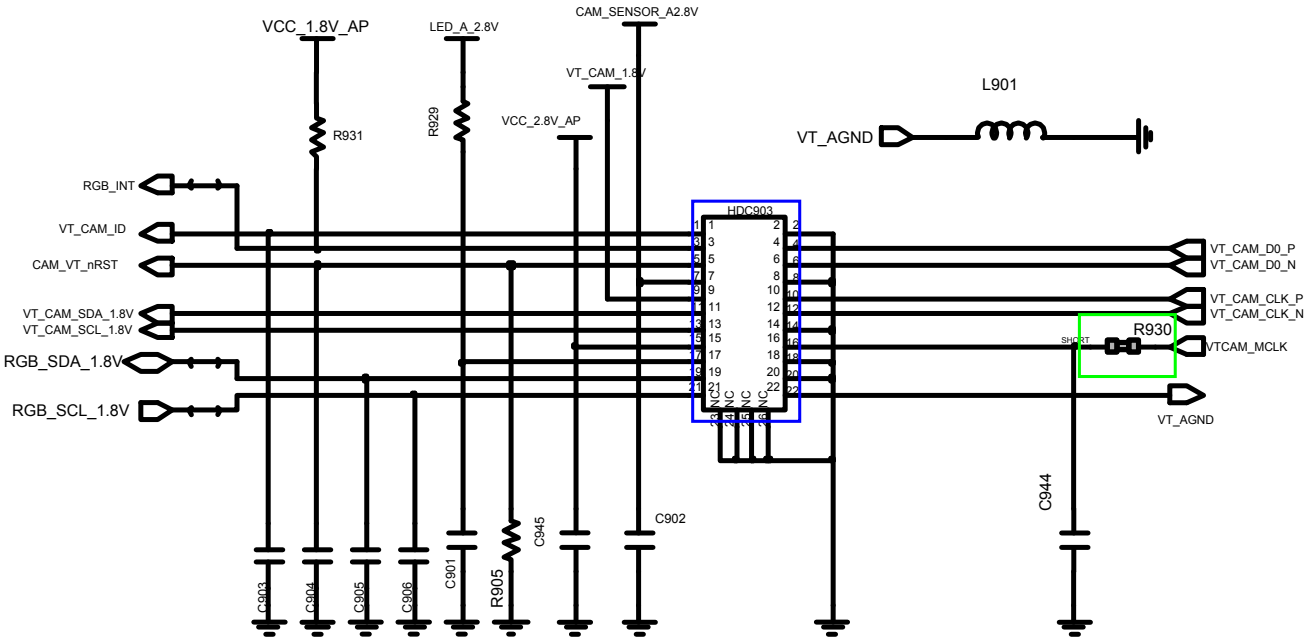

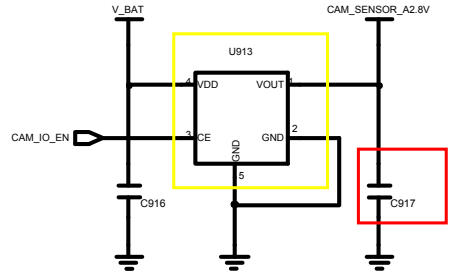

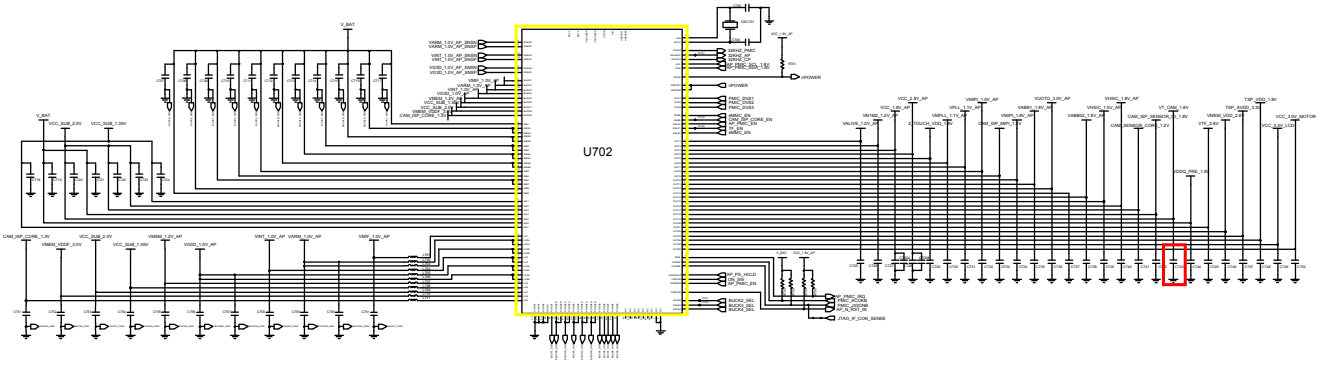

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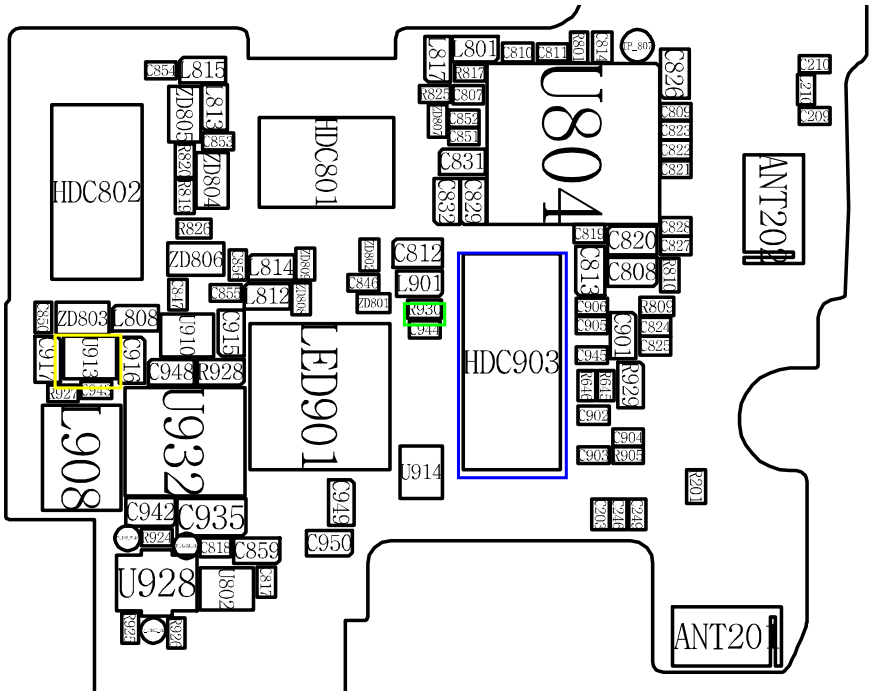

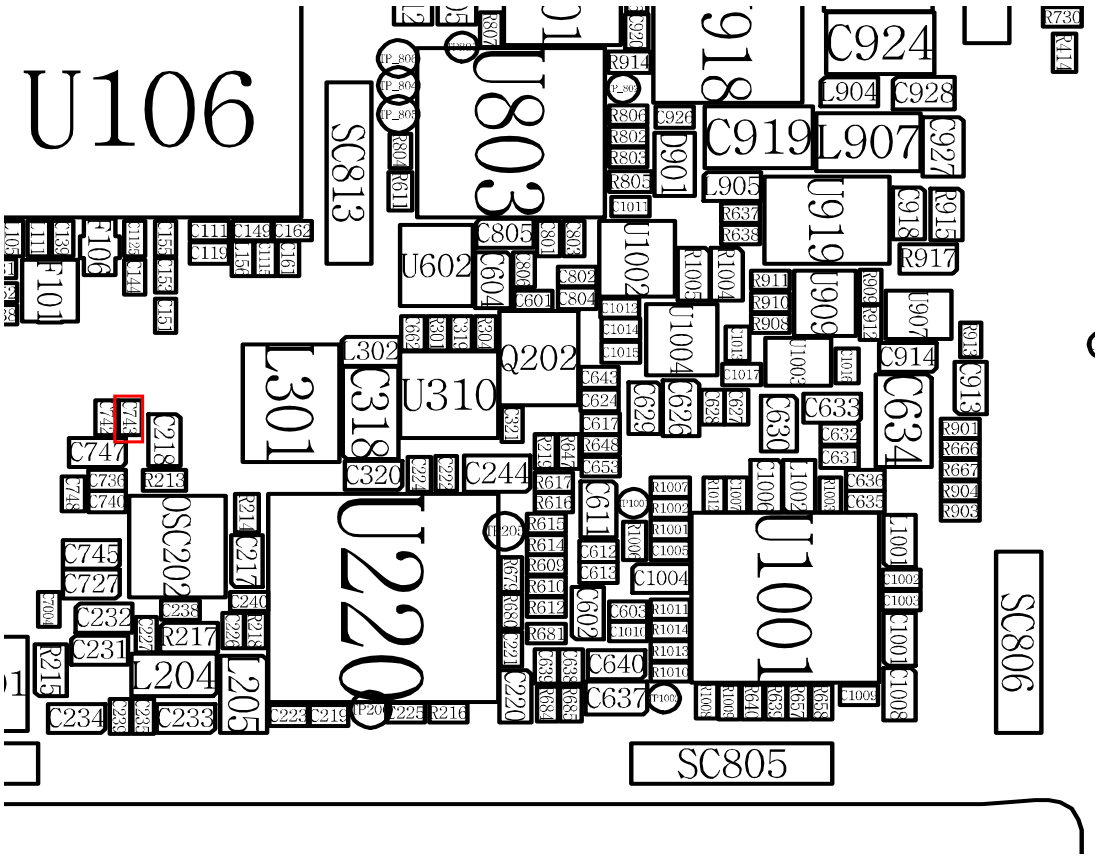

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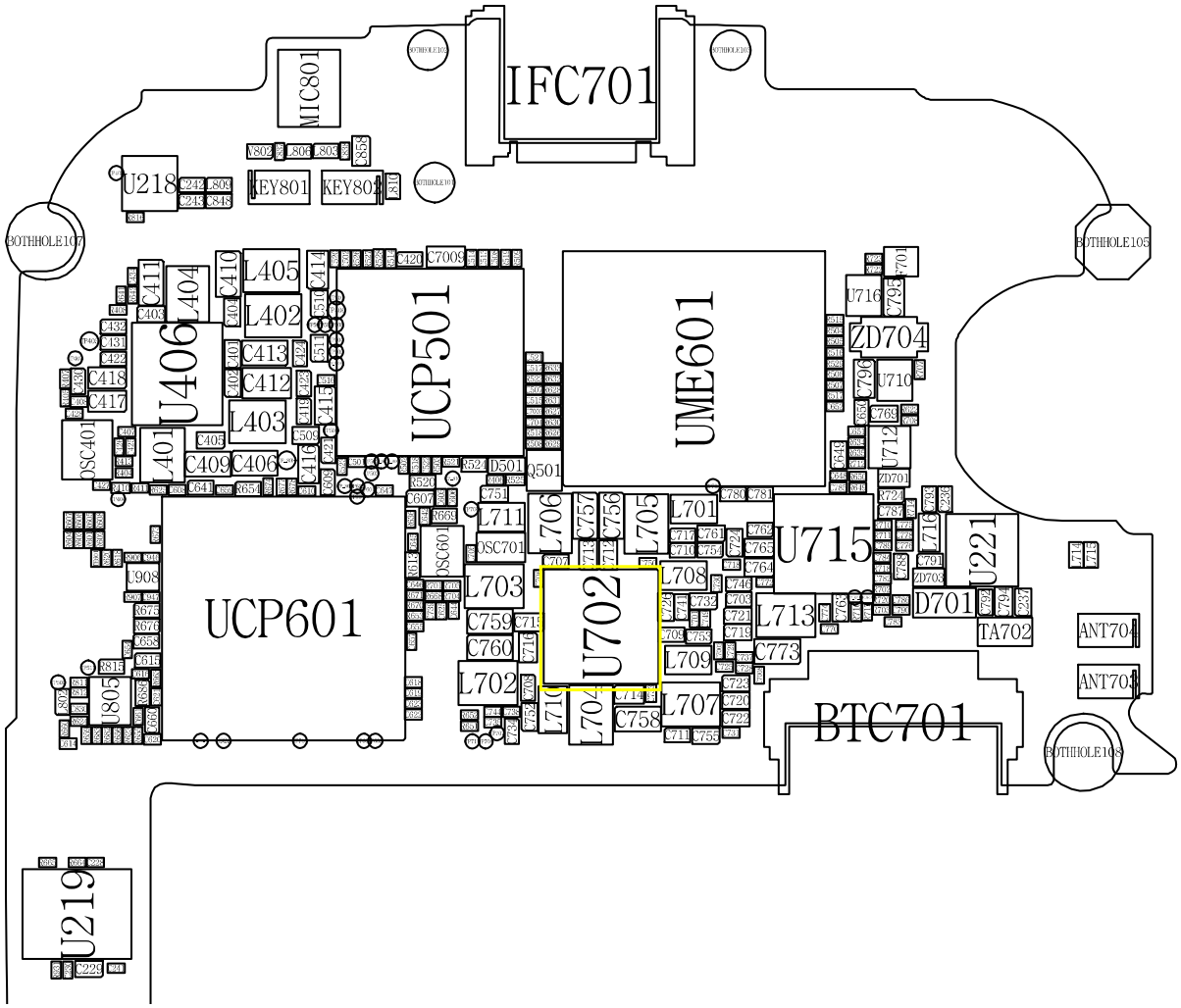

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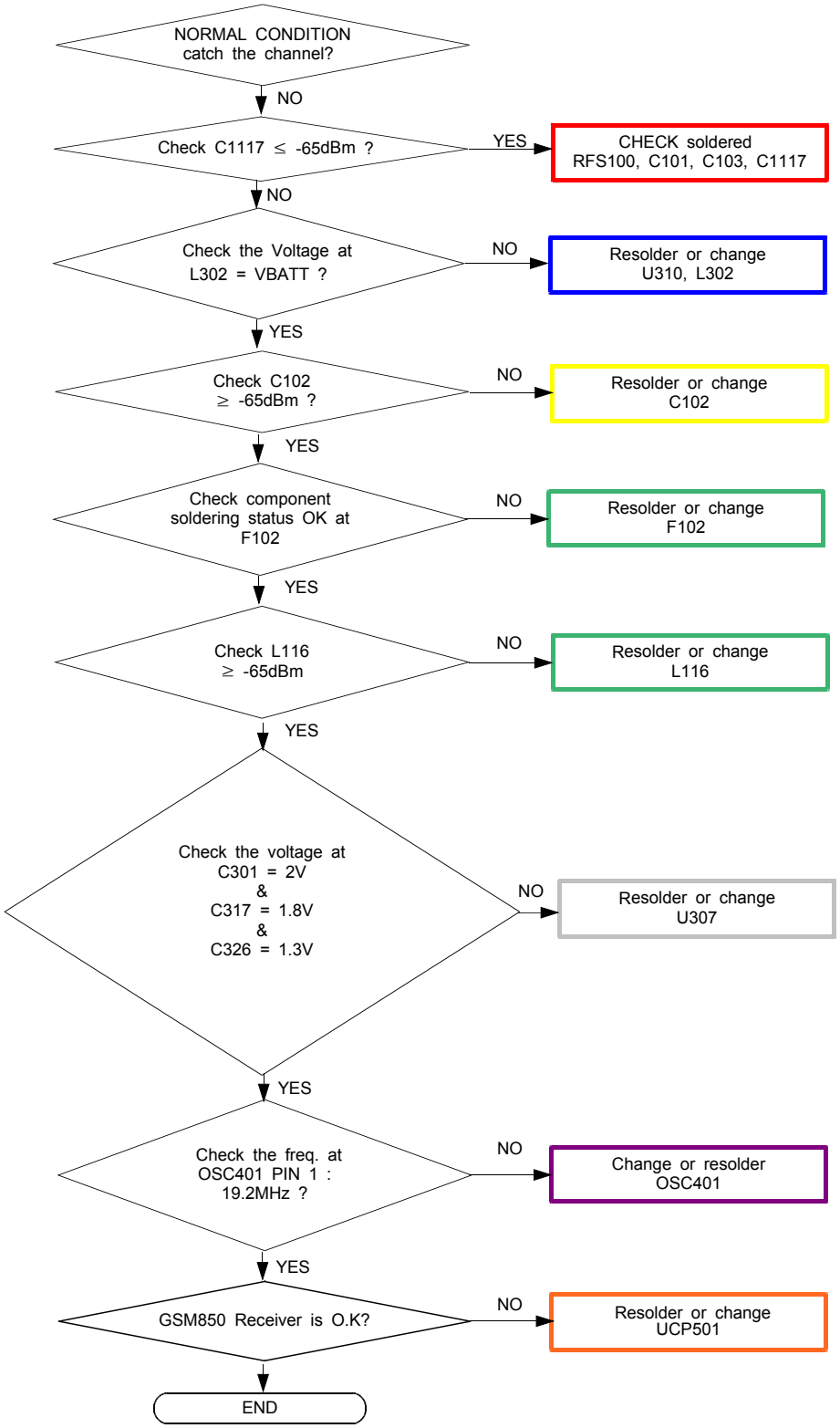
8-3-18. GSM850 RX



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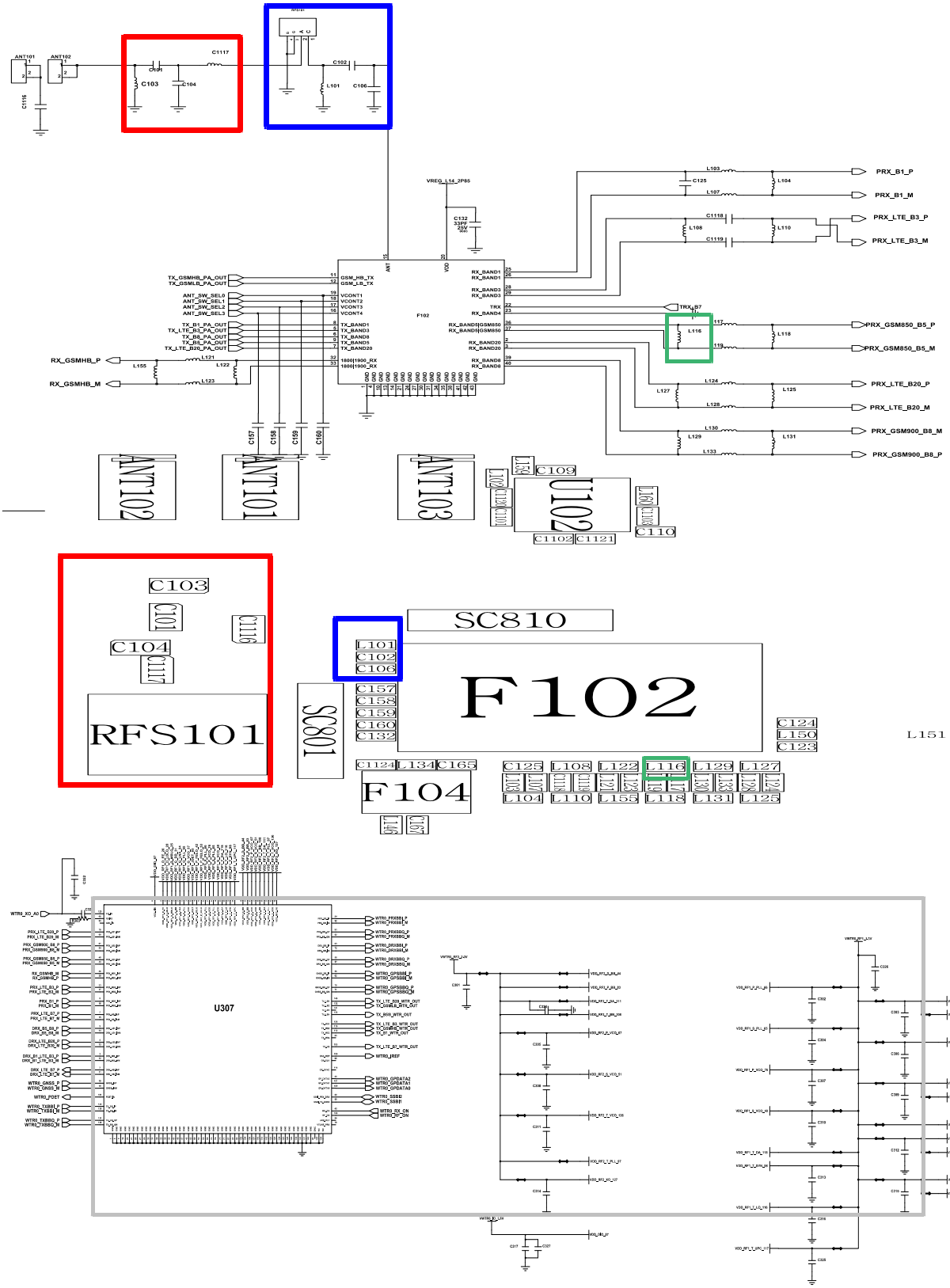

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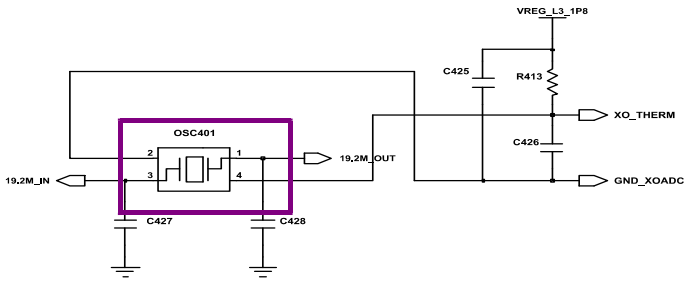

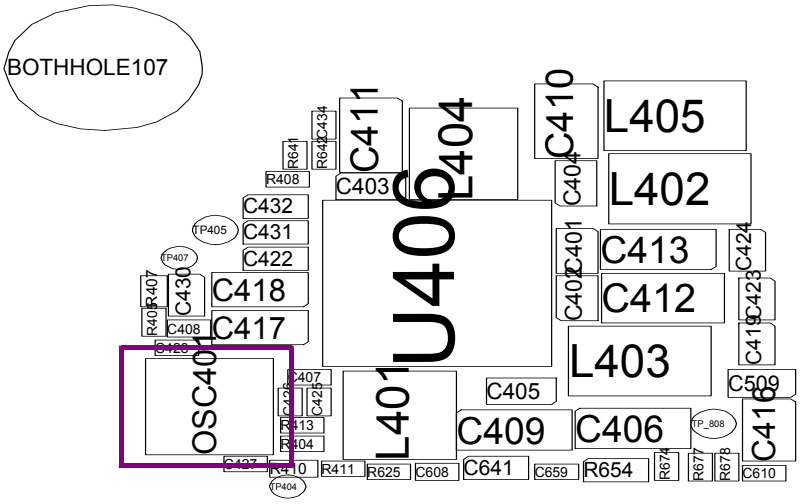

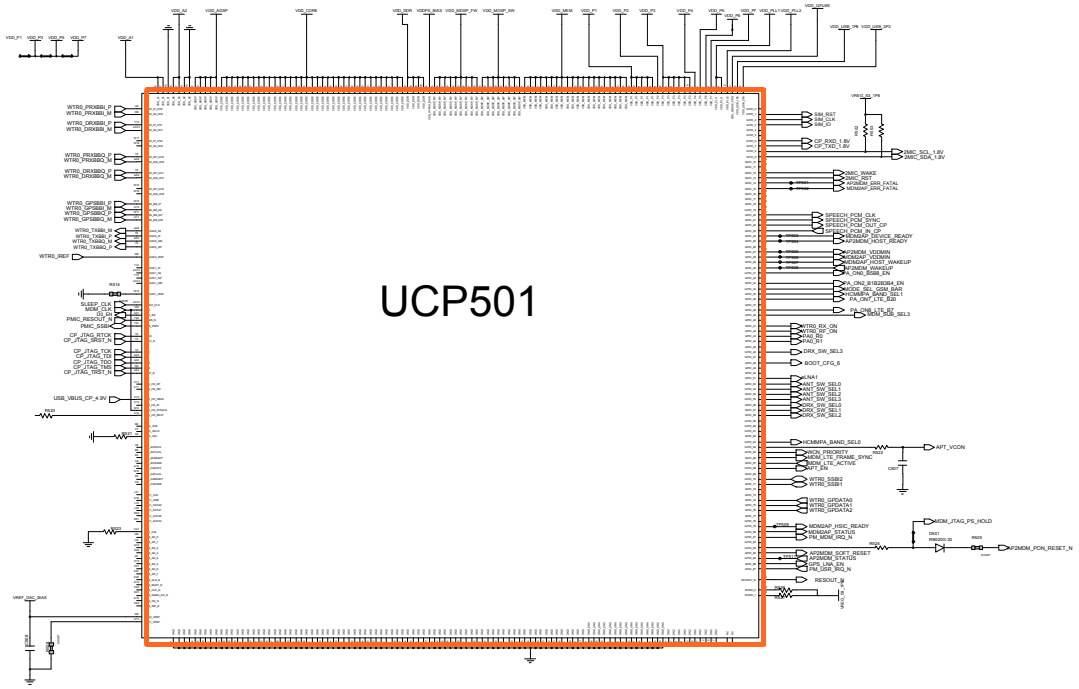

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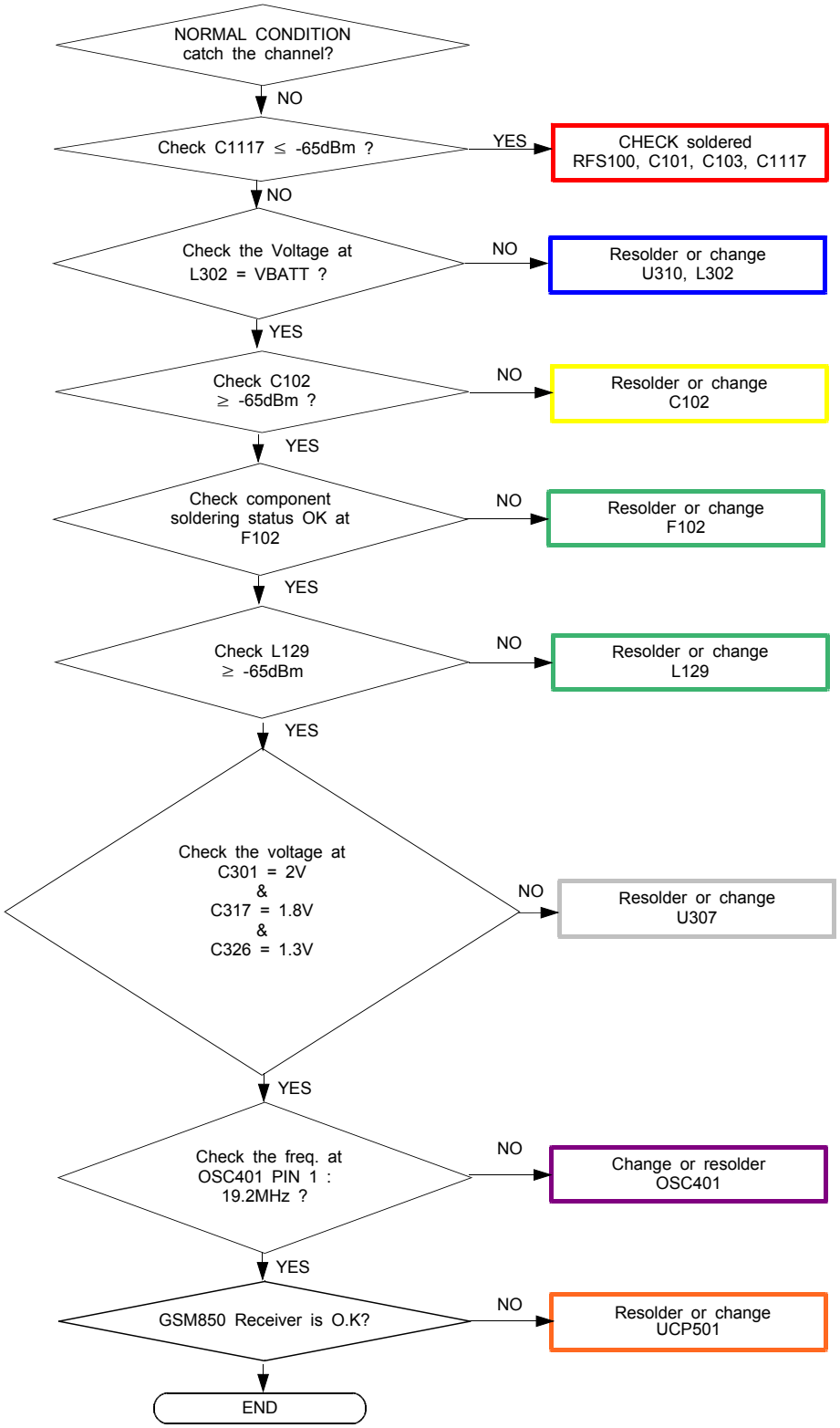
8-3-19. GSM900 RX



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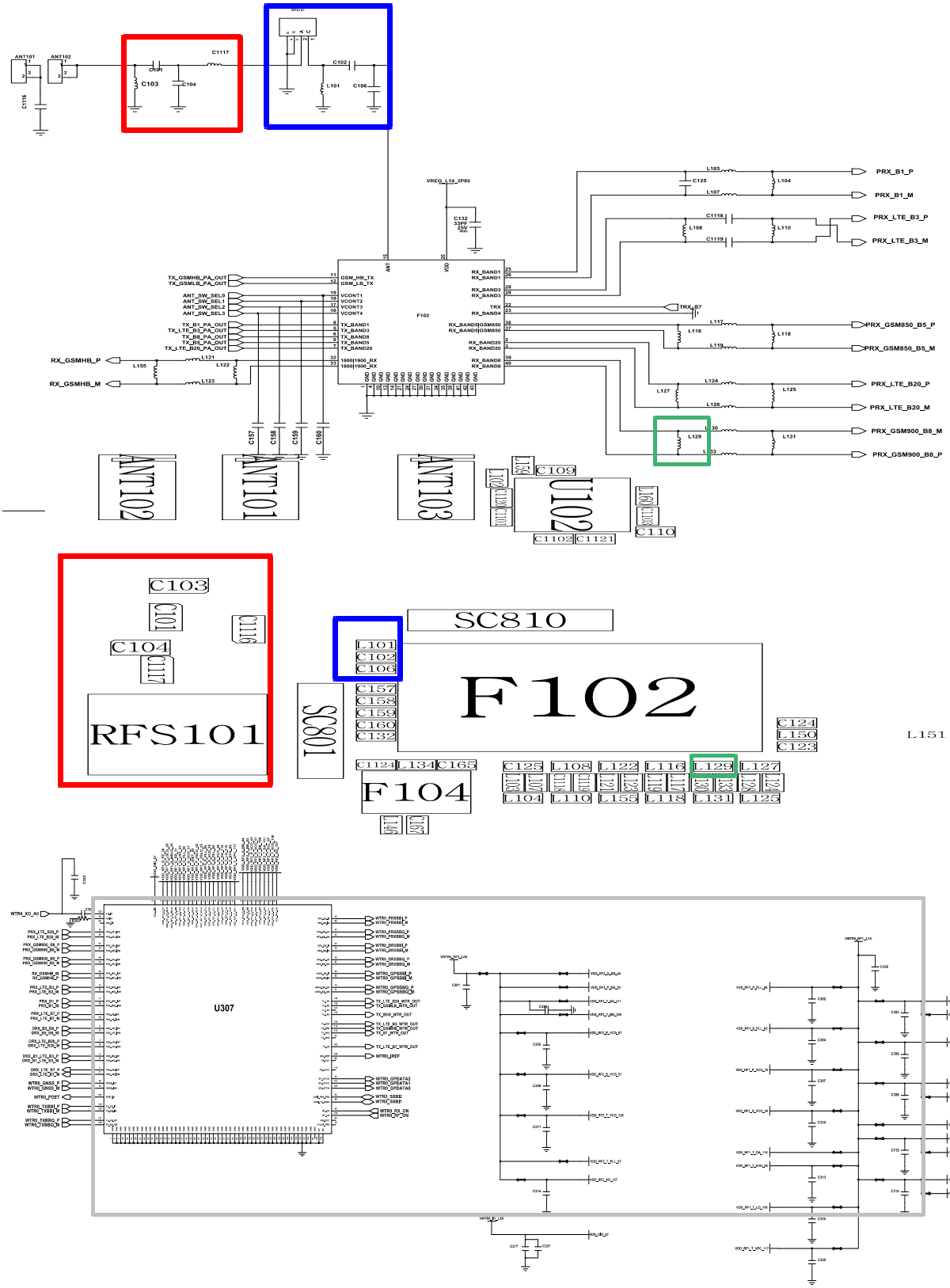

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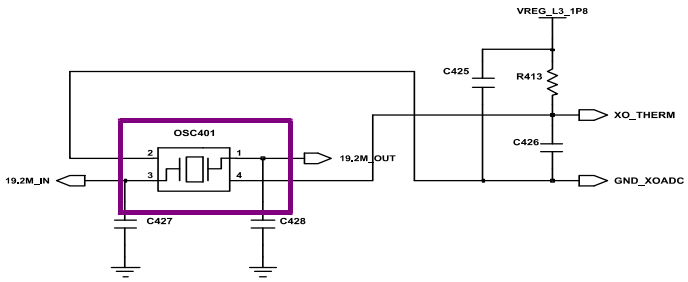

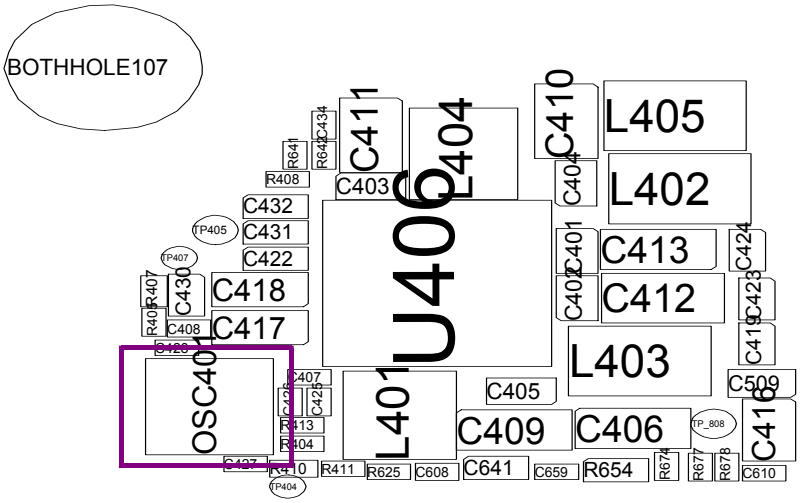

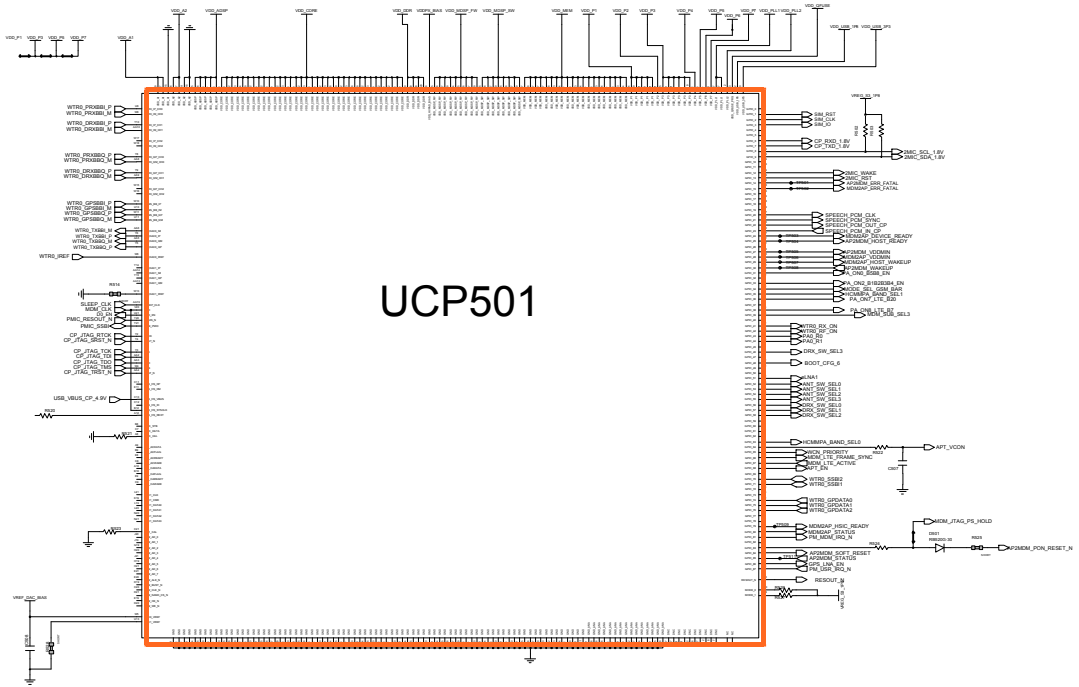

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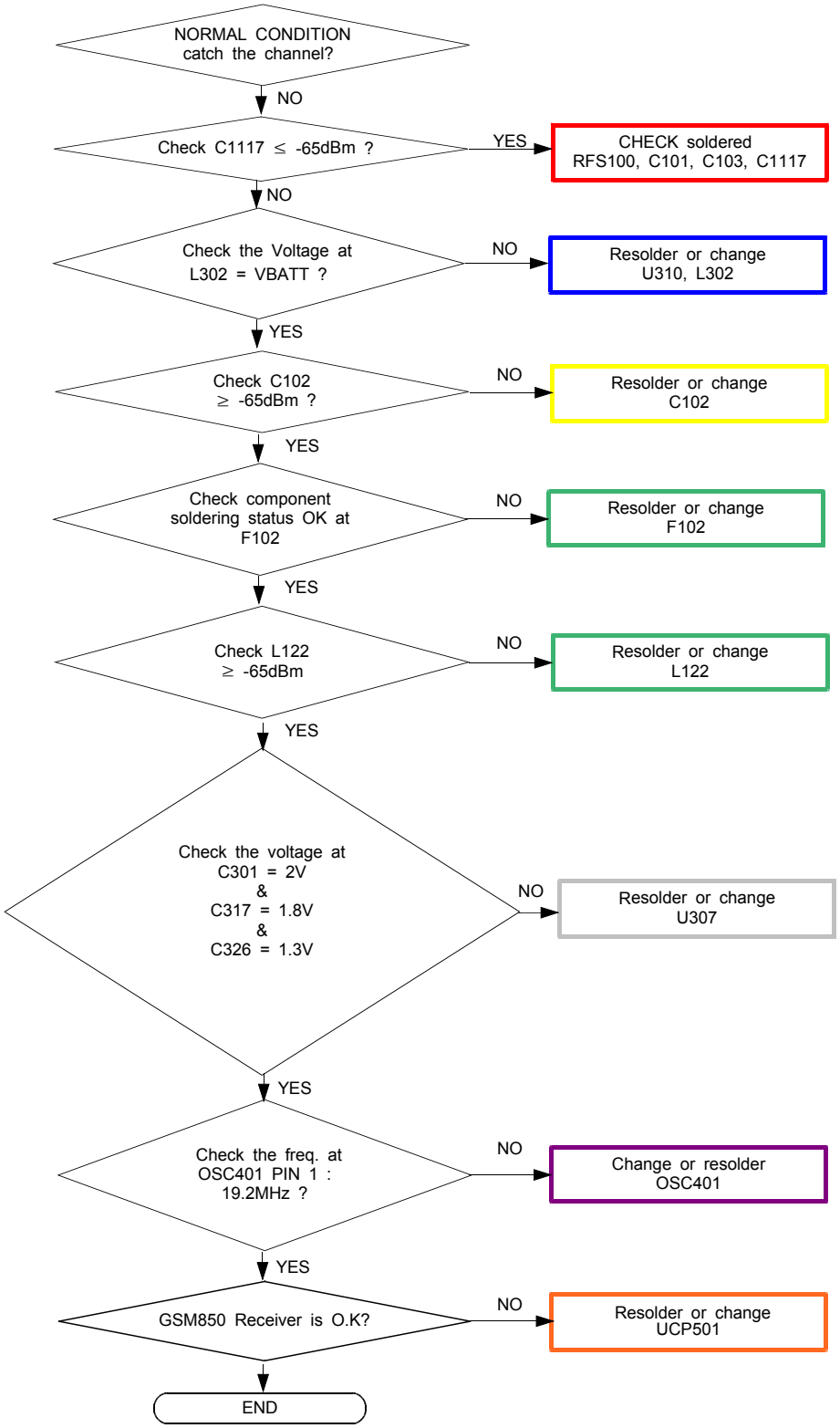
8-3-20. GSM1800/1900 RX



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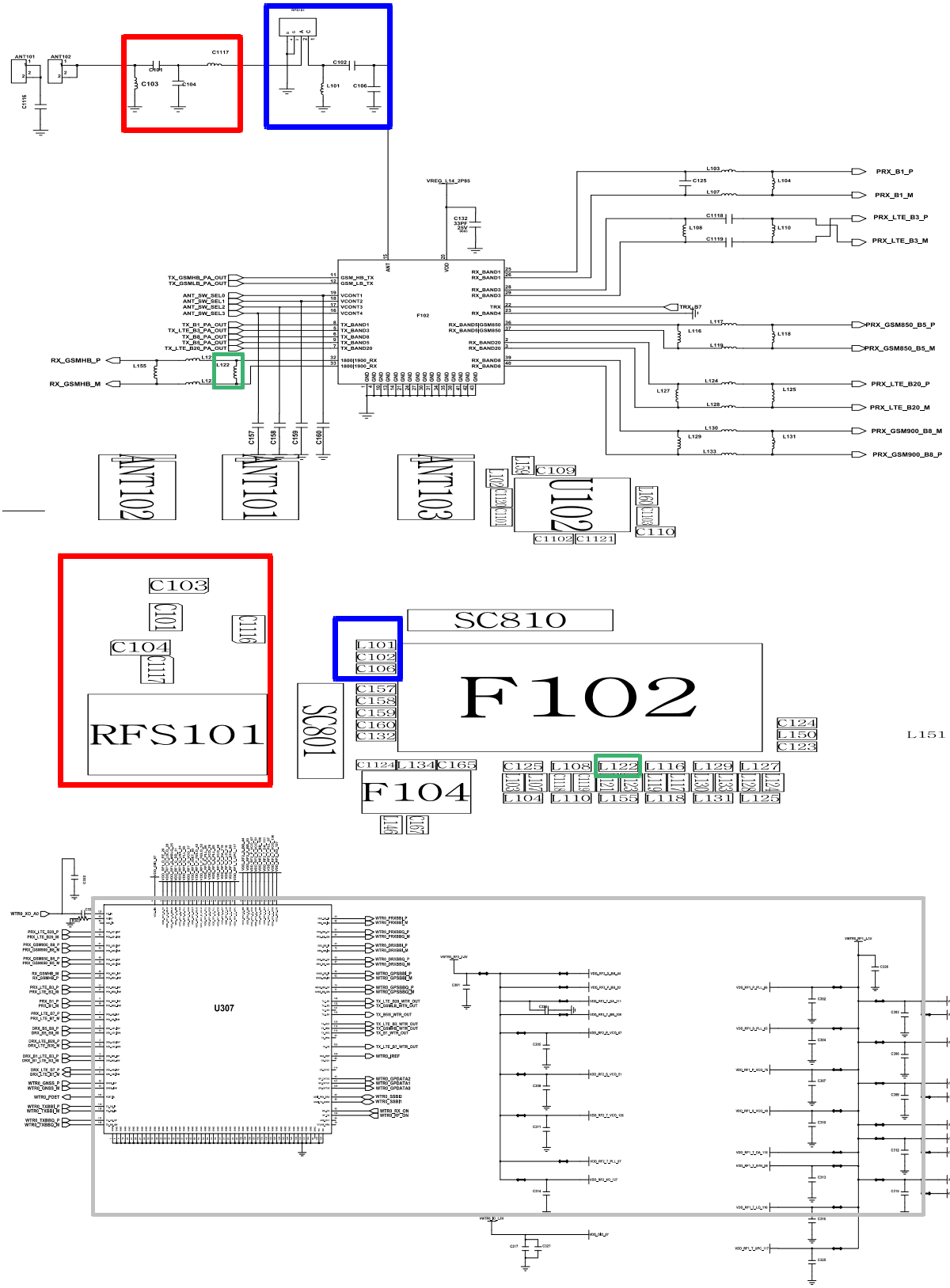

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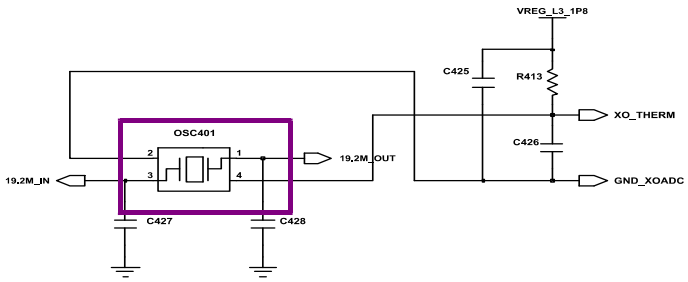

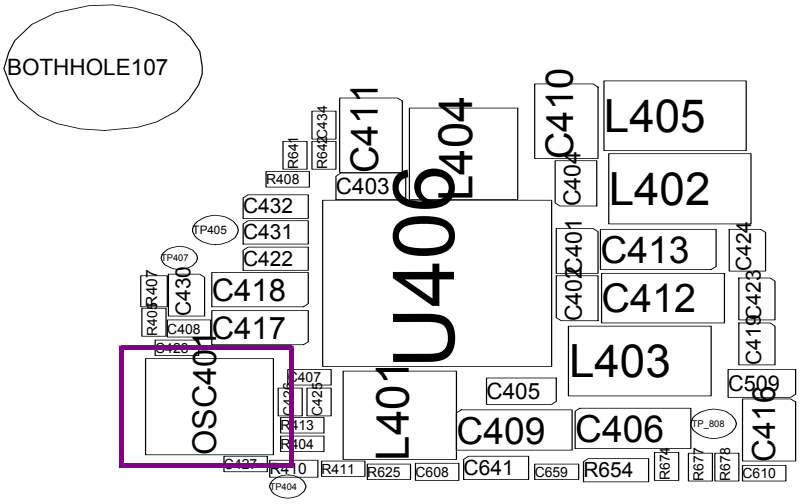

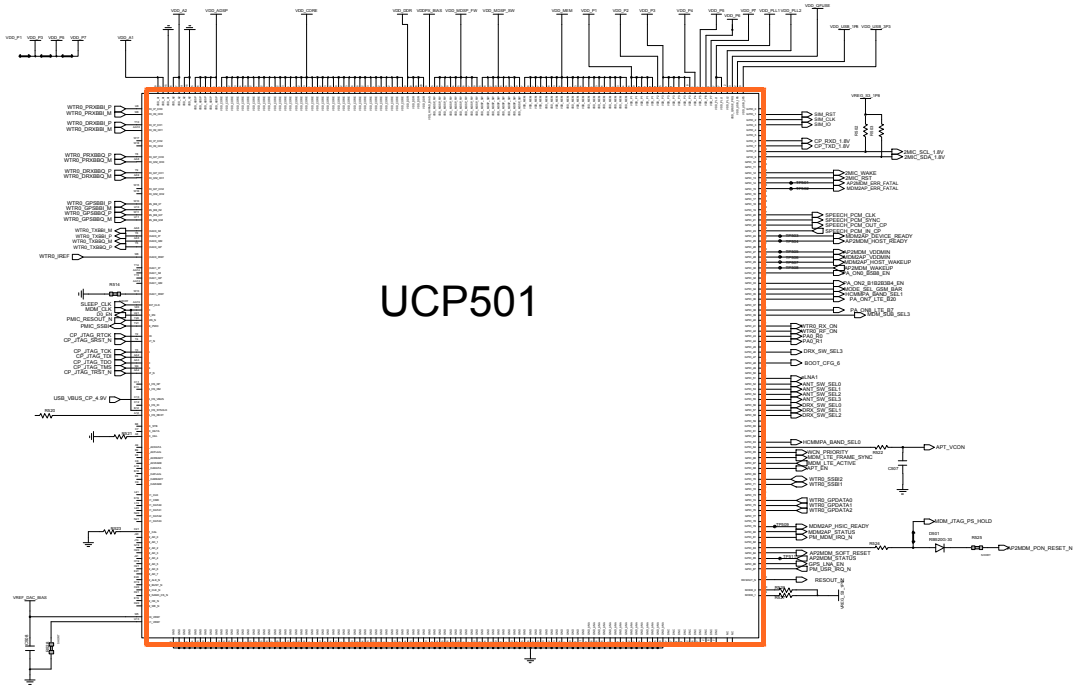

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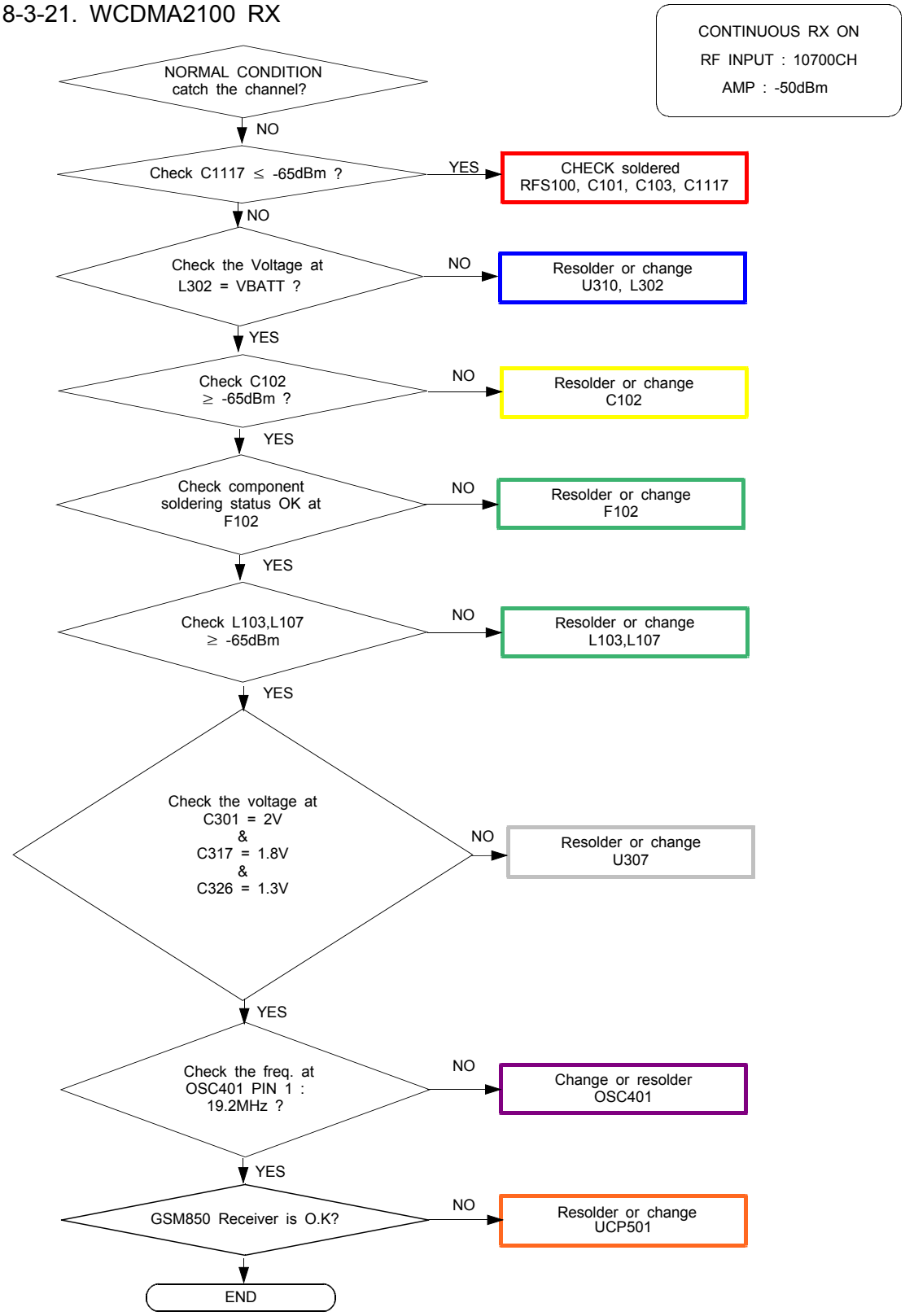
8-3-21. WCDMA2100 RX



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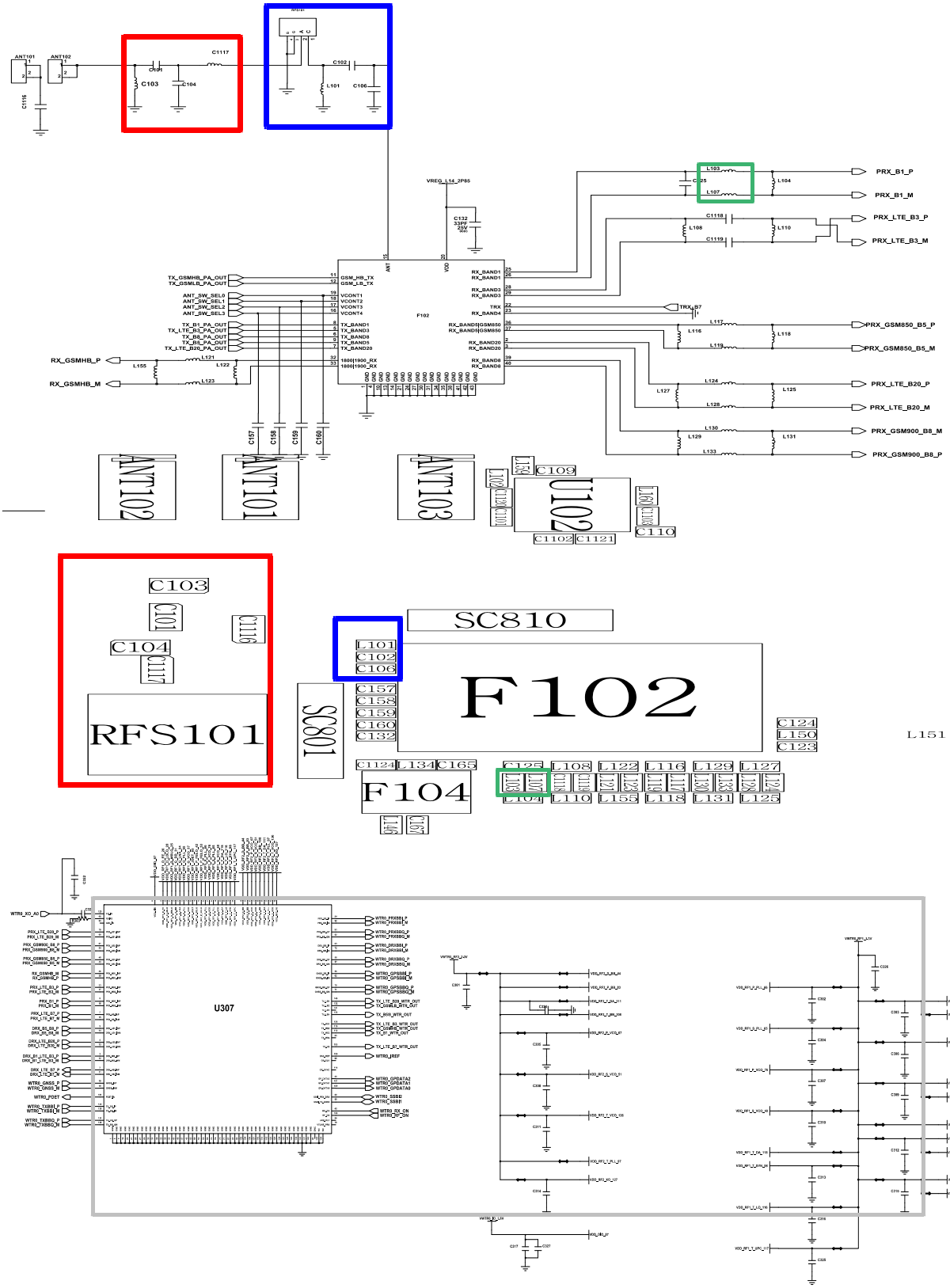

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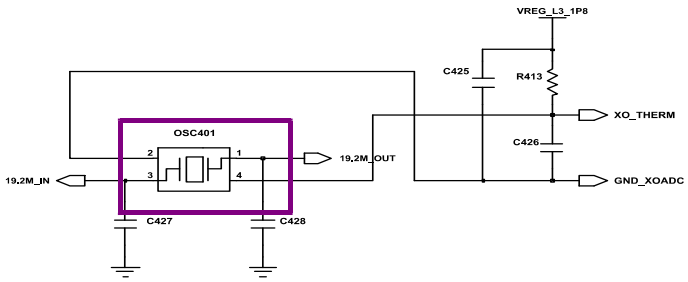

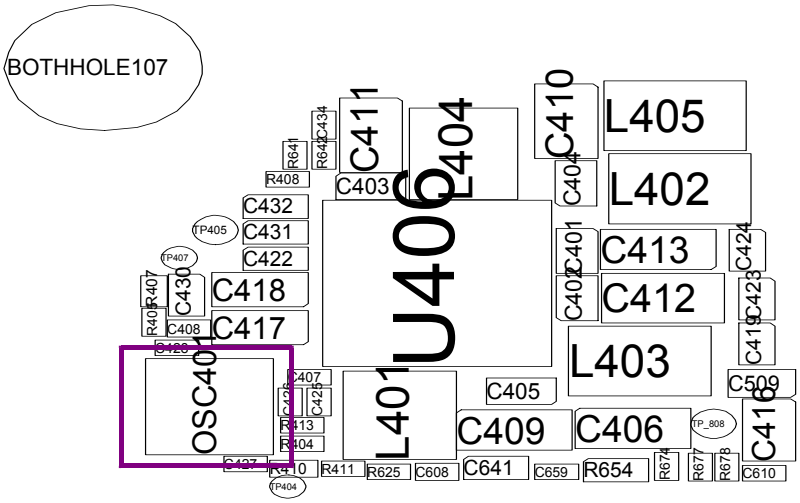

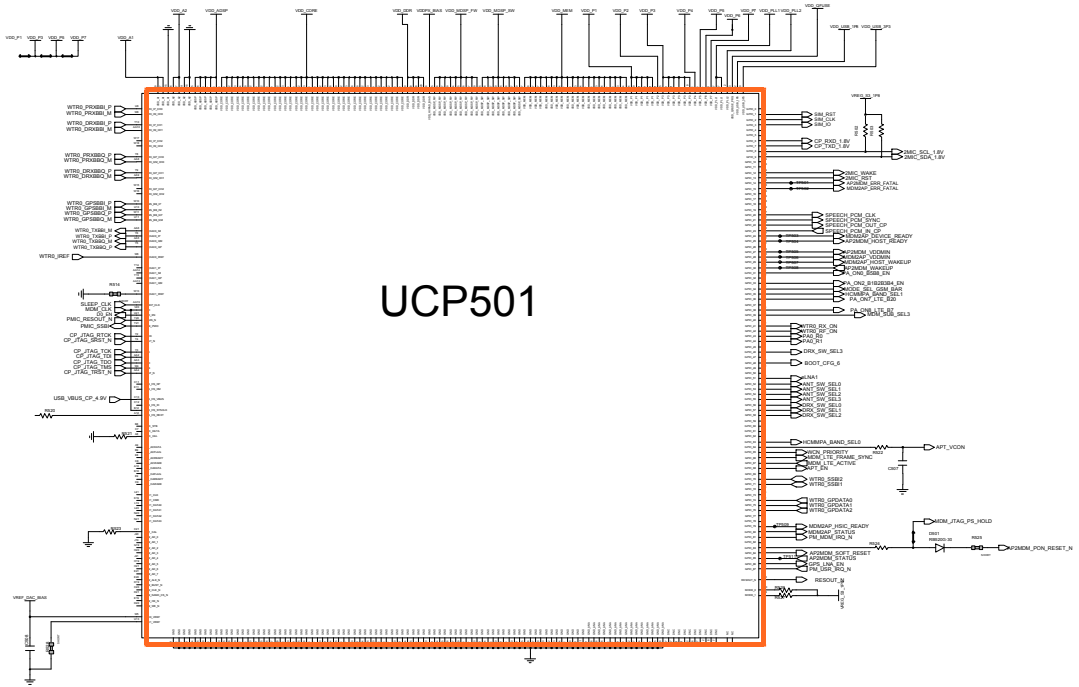

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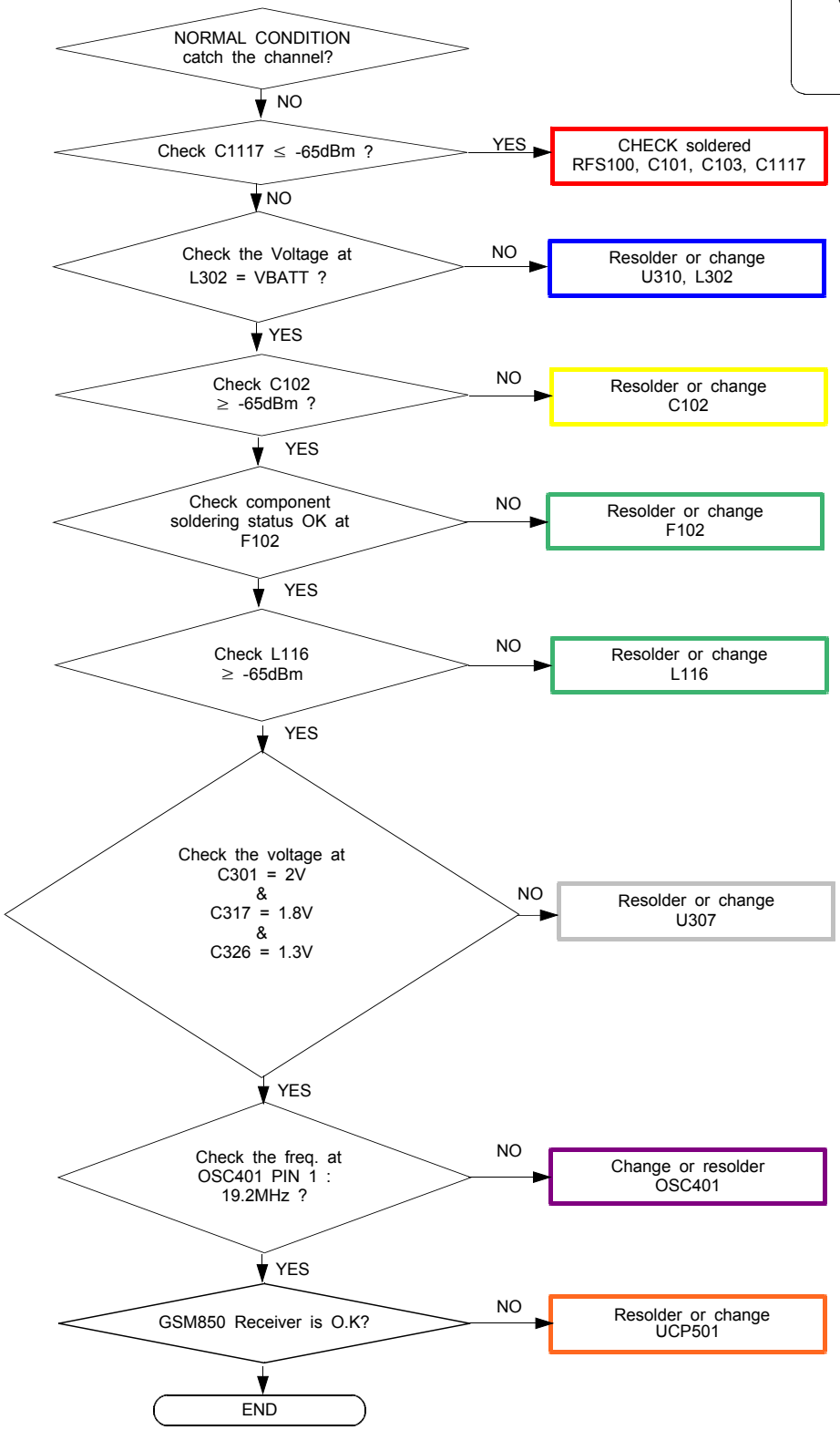
8-3-22. WCDMA850 RX

CONTINUOUS RX ON
RF INPUT : 4407CH
AMP : -50dBm



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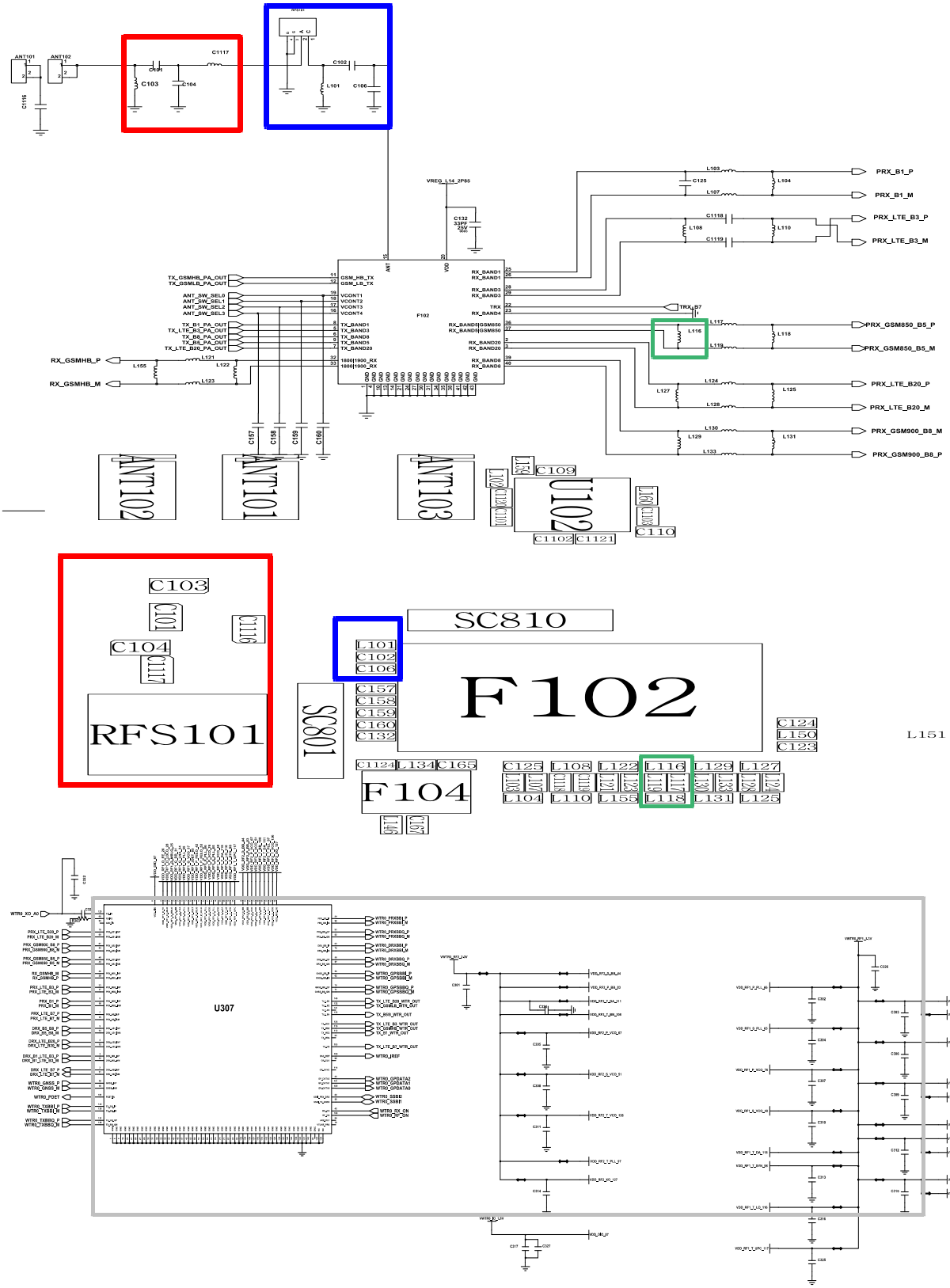

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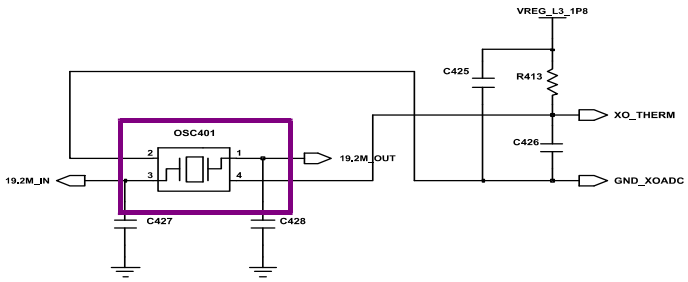

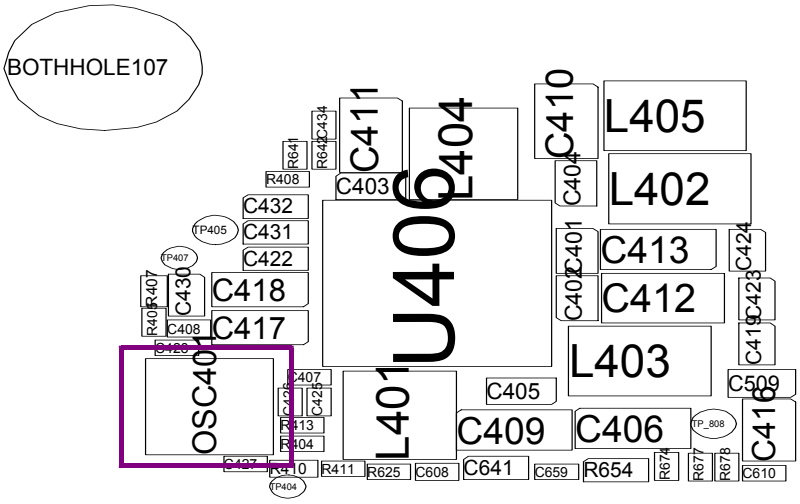

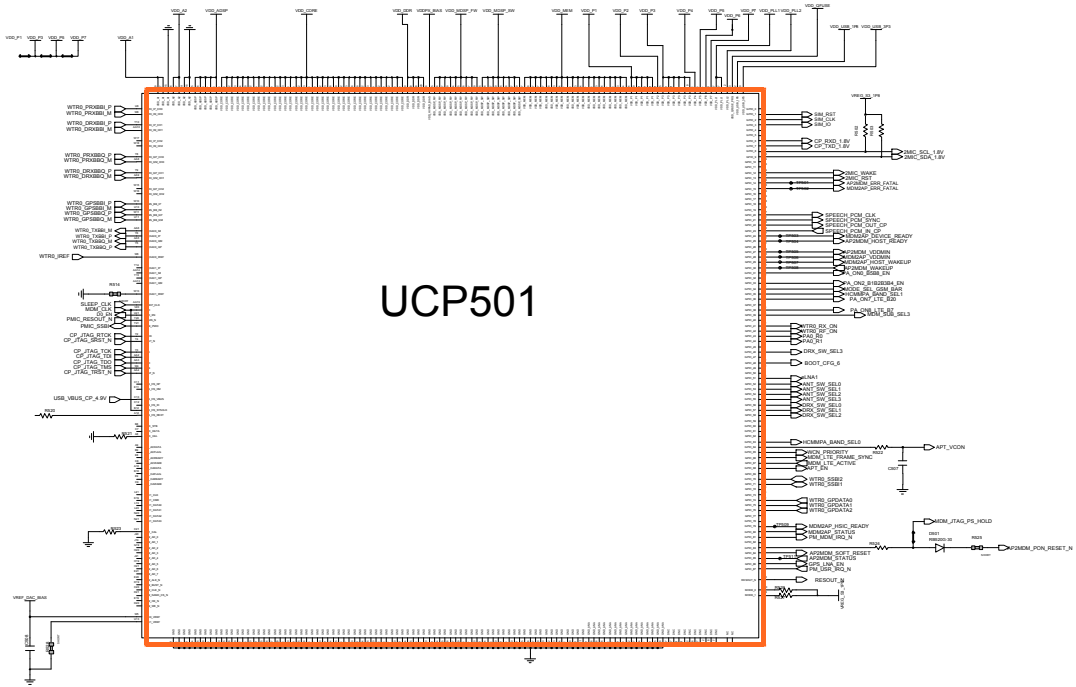

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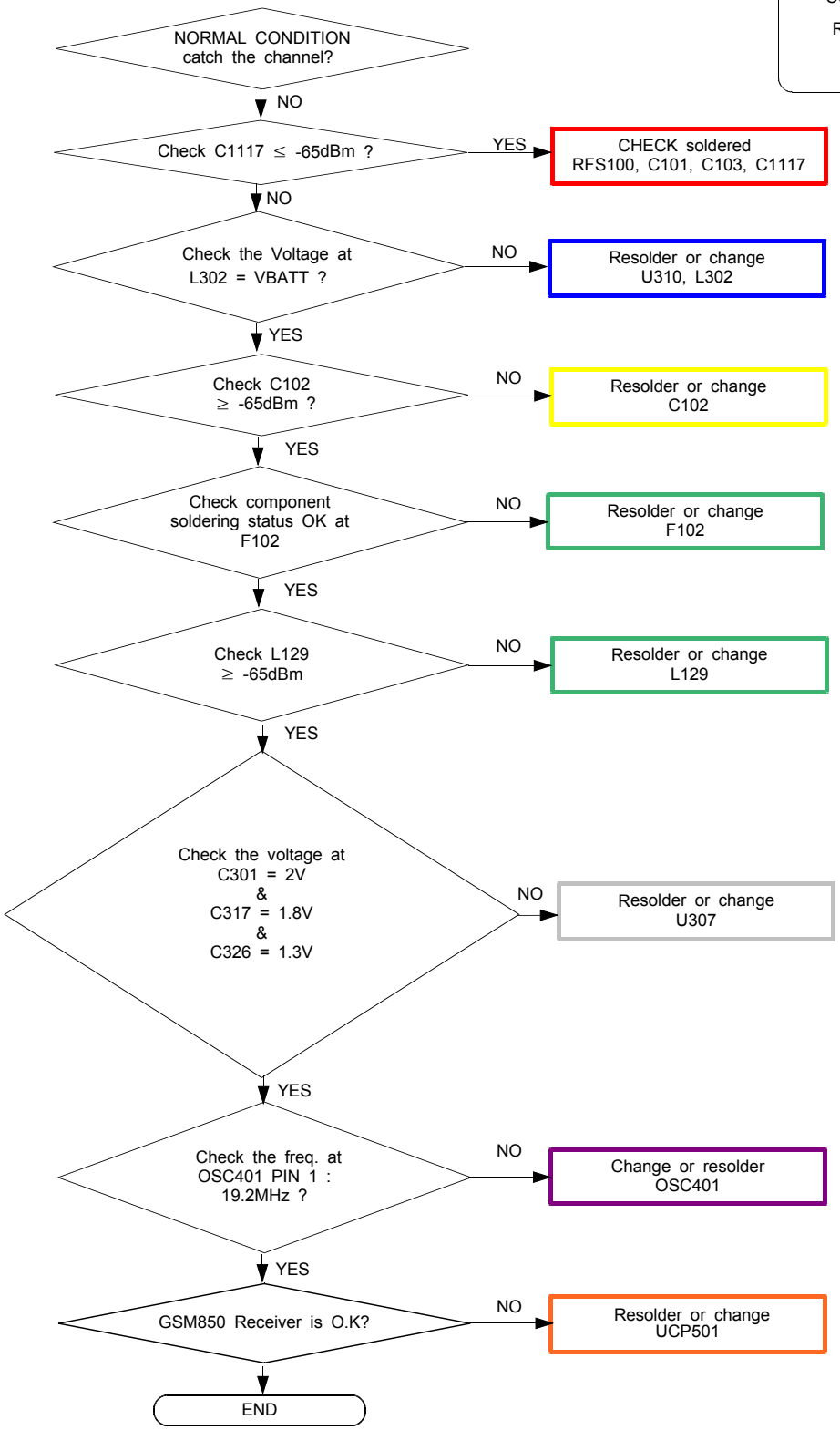
8-3-23. WCDMA900 RX

CONTINUOUS RX ON
RF INPUT : 3013CH
AMP : -50dBm



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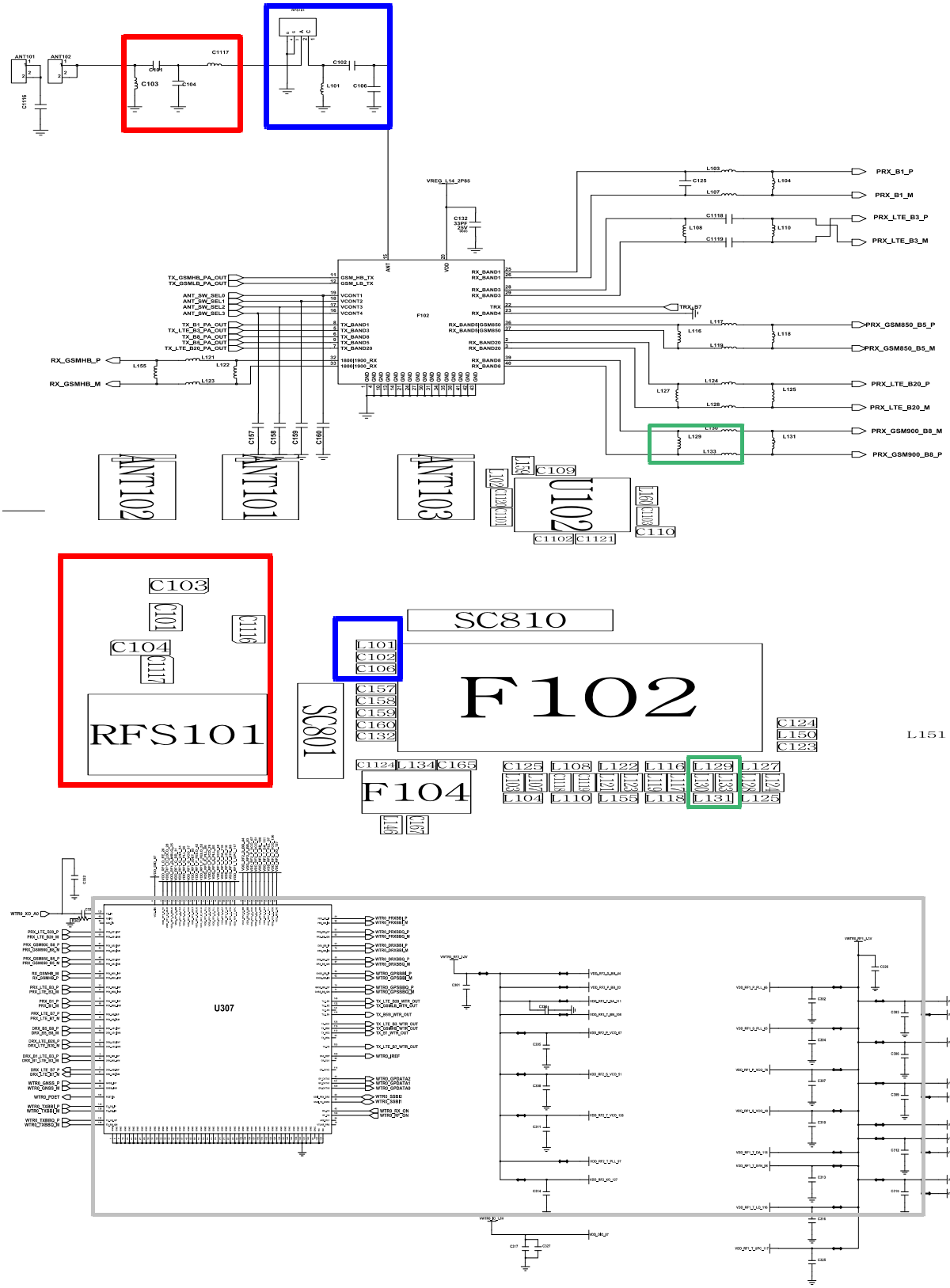

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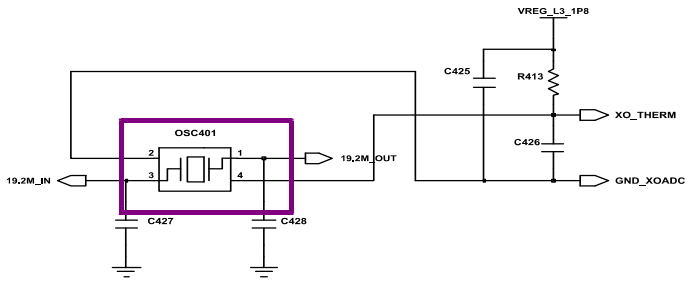

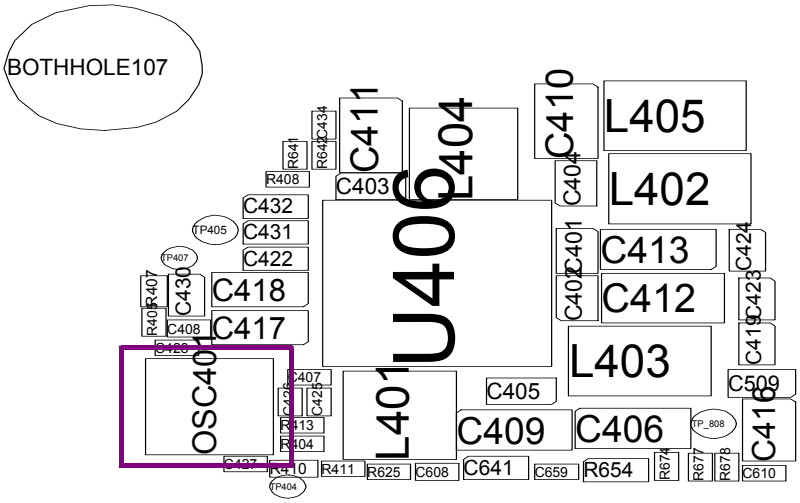

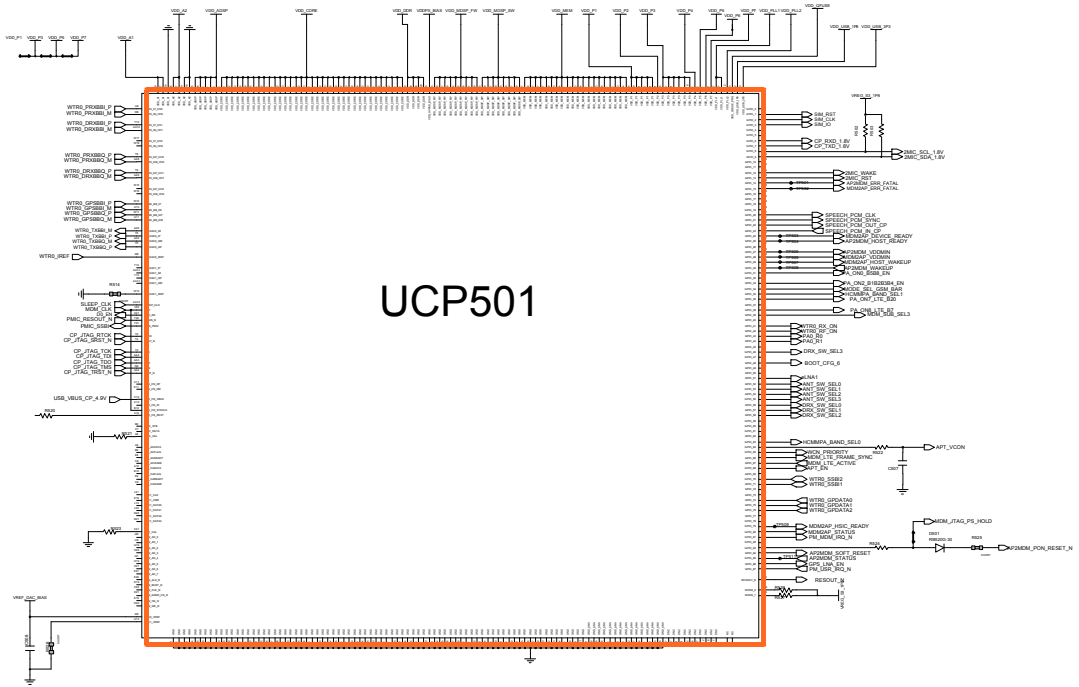

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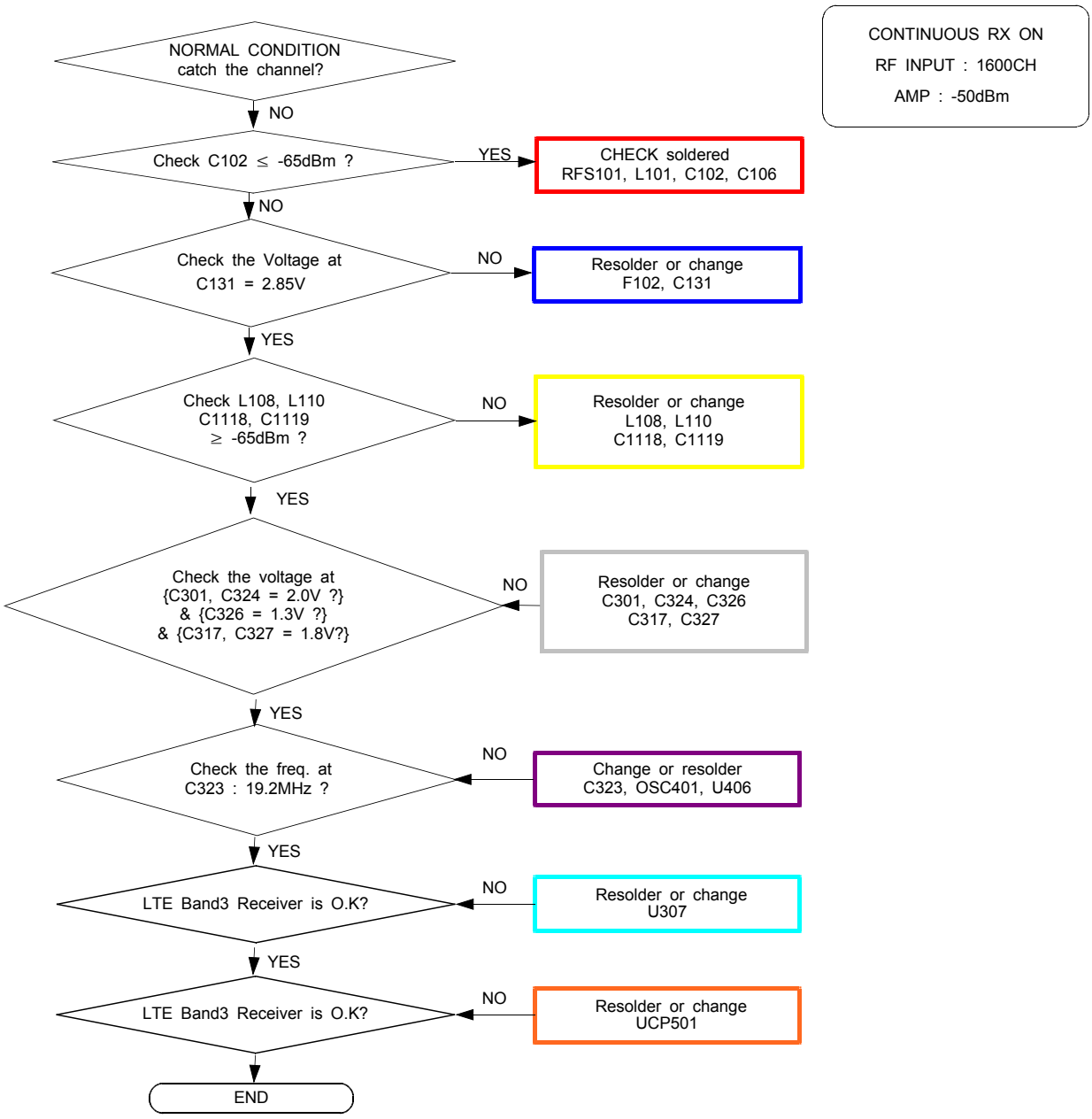
8-3-24. LTE Band3 RX



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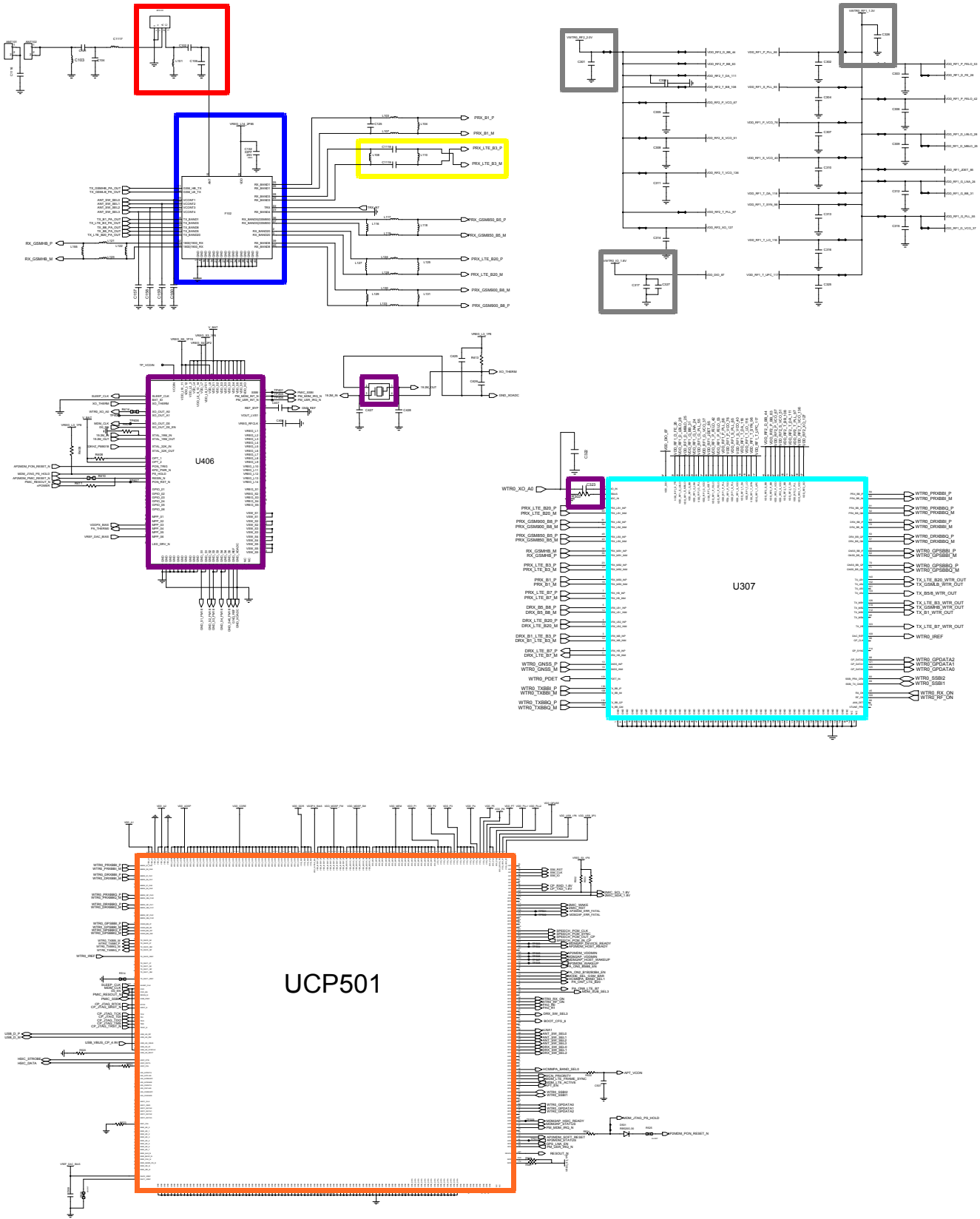

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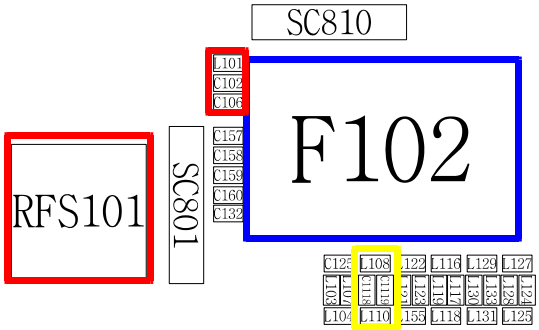

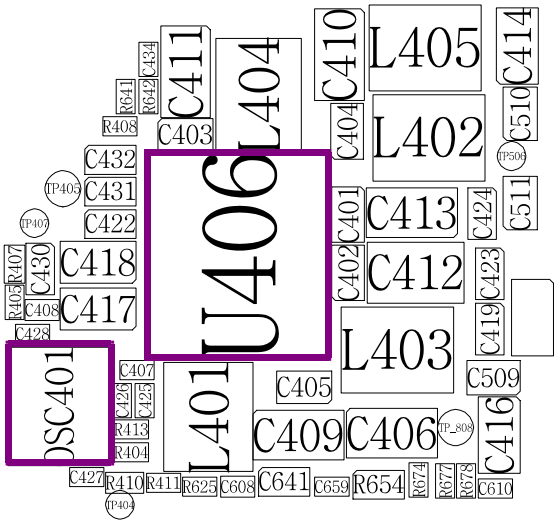

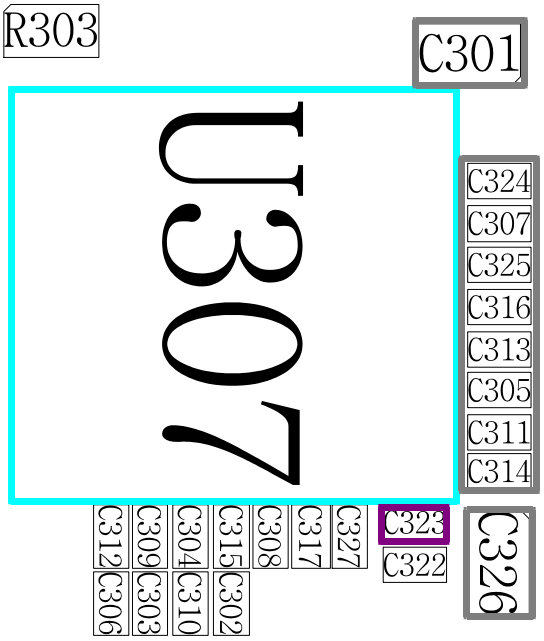

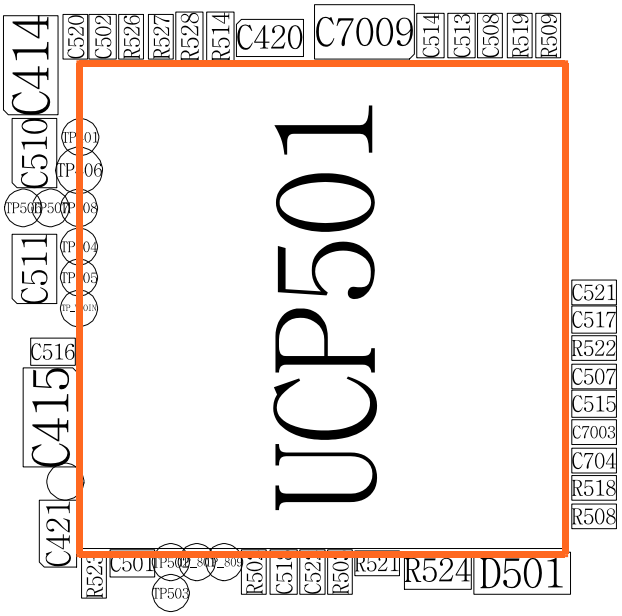

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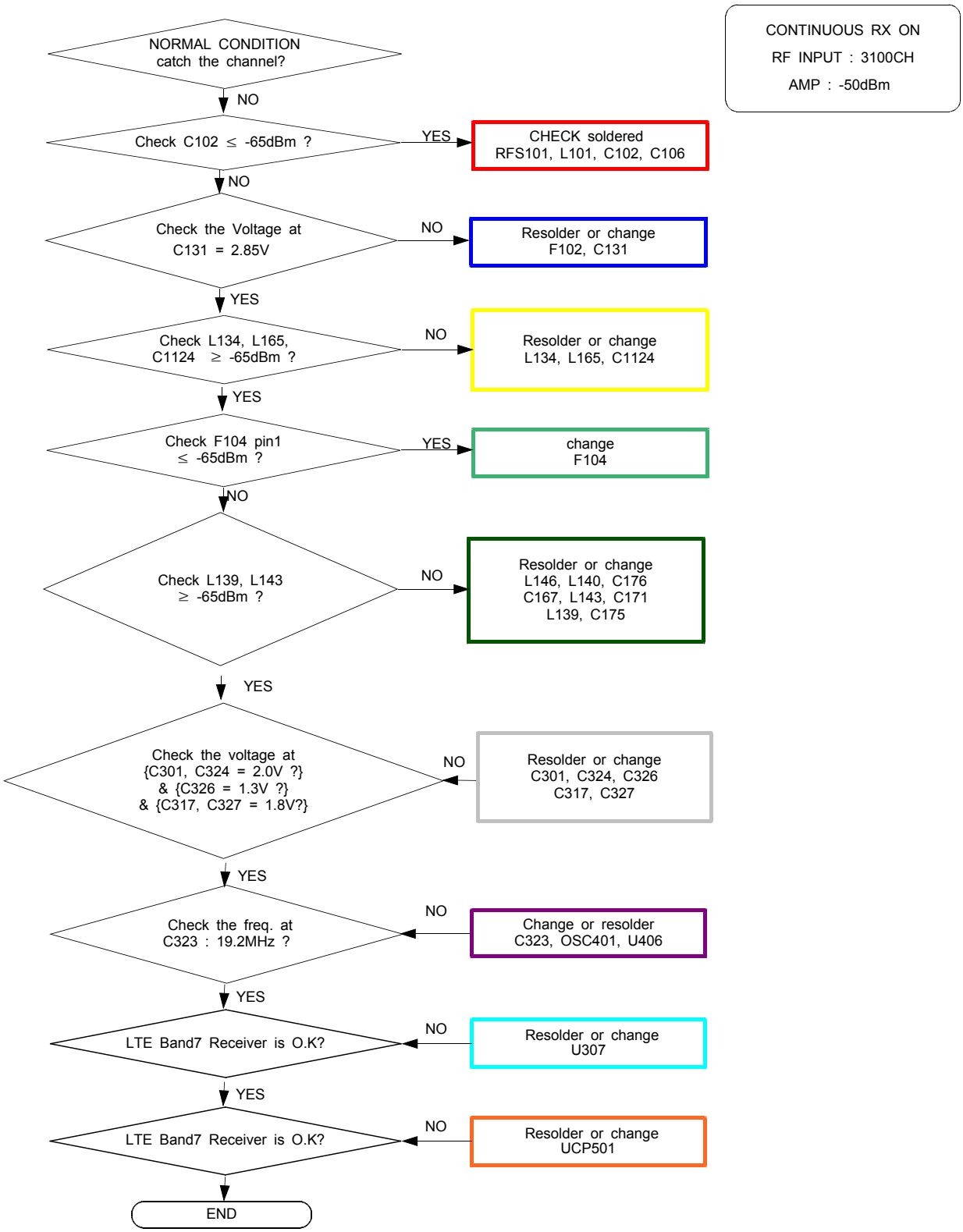
8-3-25. LTE Band7 RX



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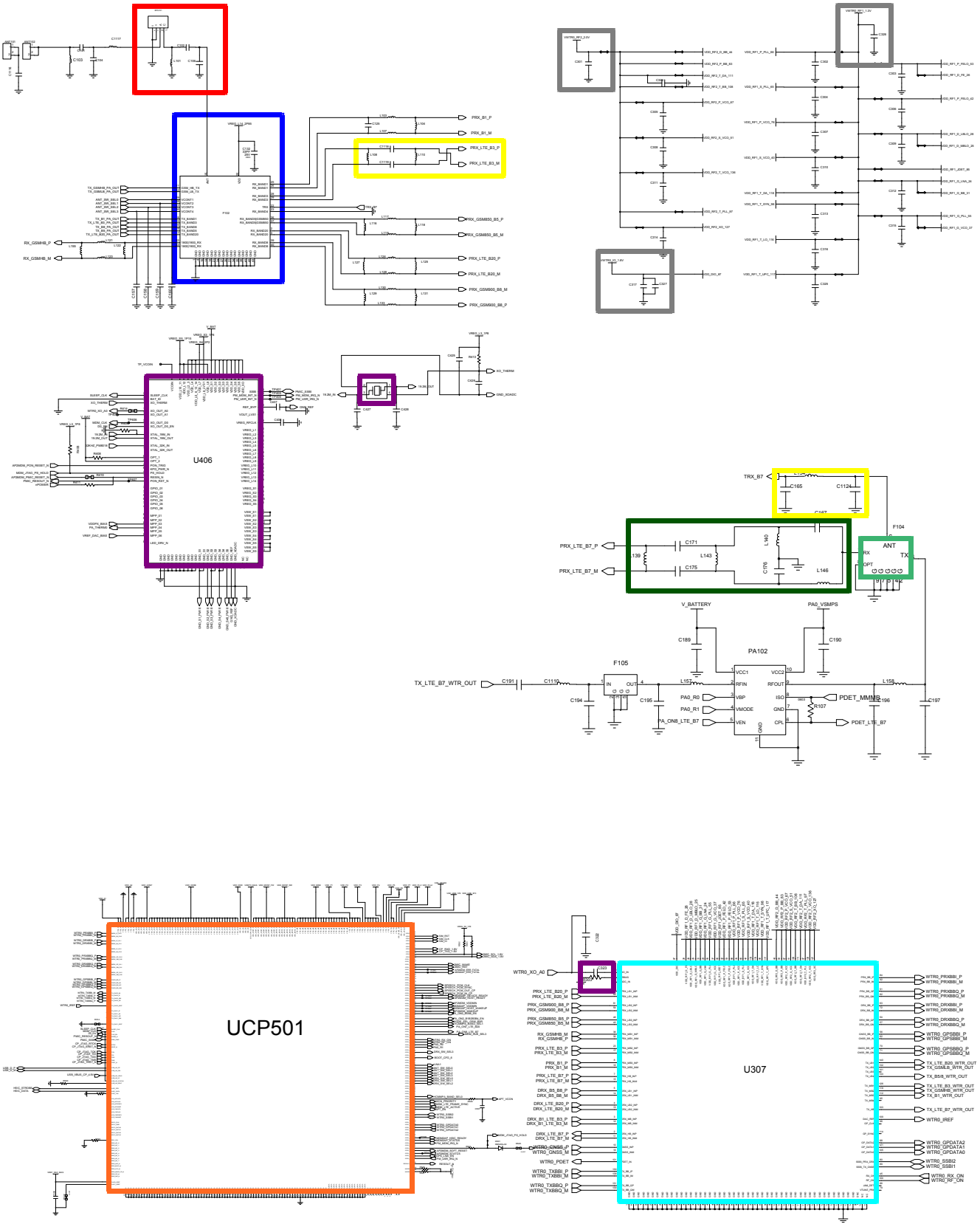

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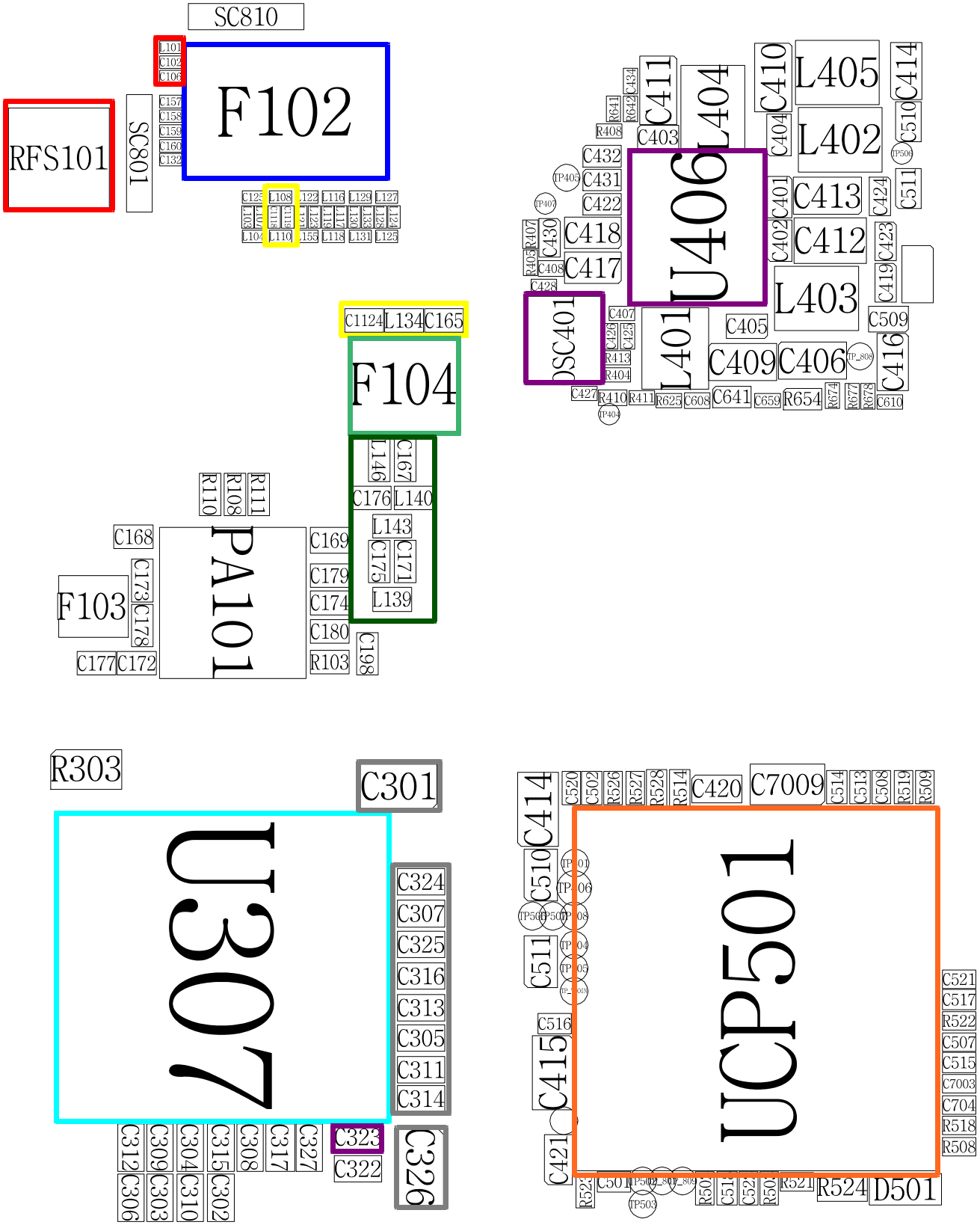

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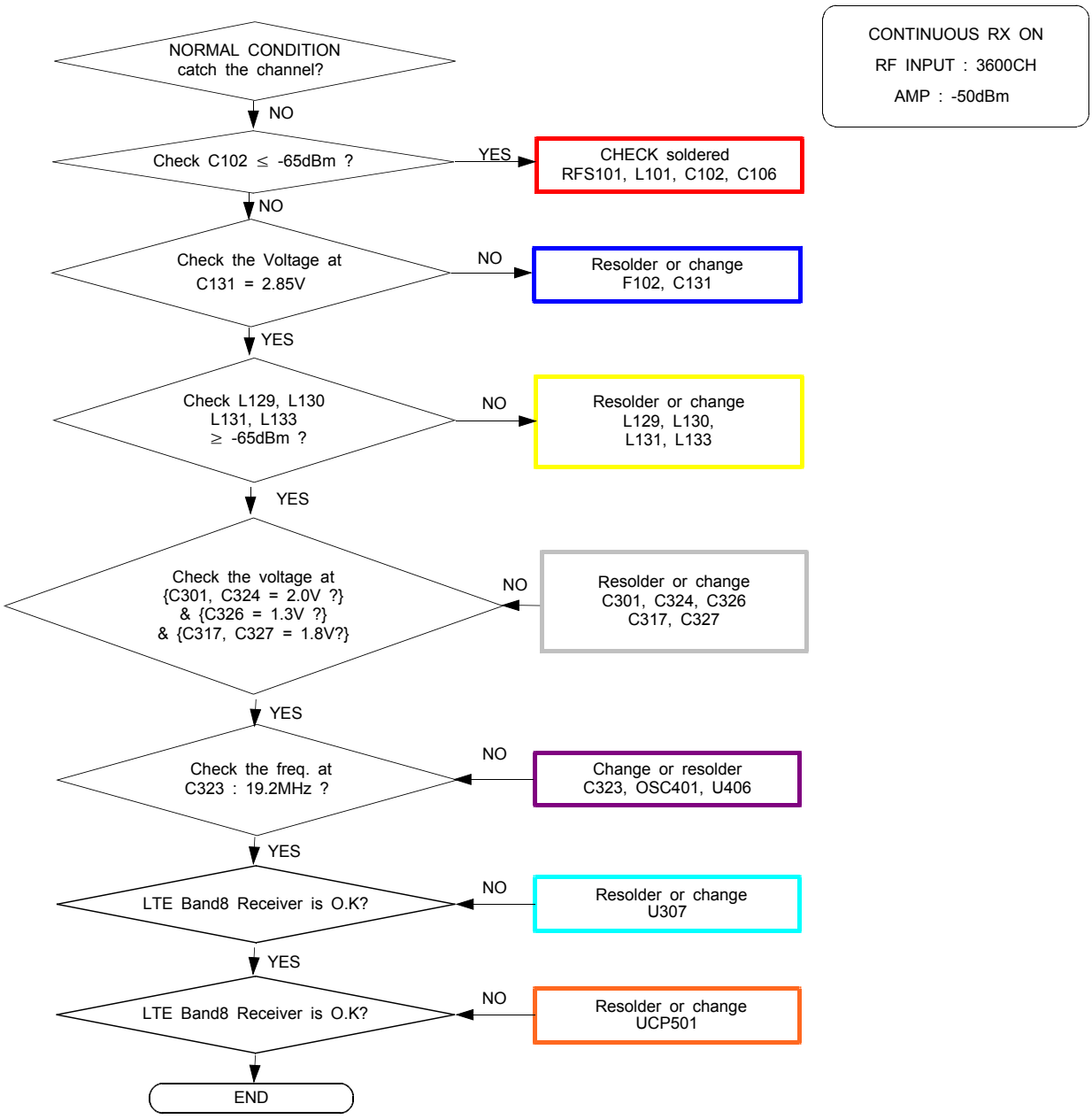
8-3-26. LTE Band8 RX



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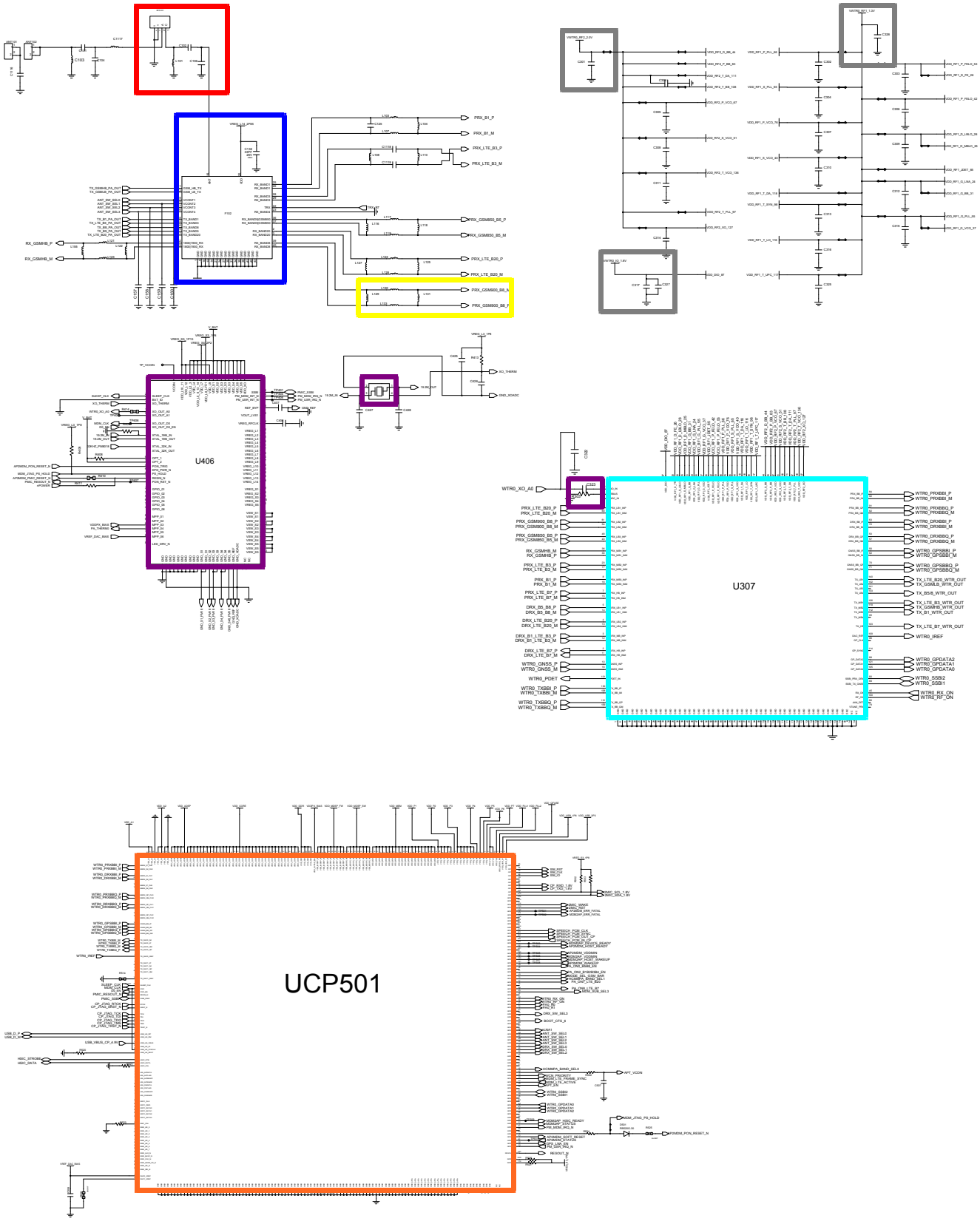

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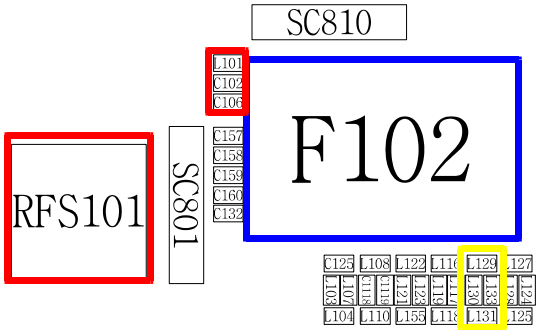

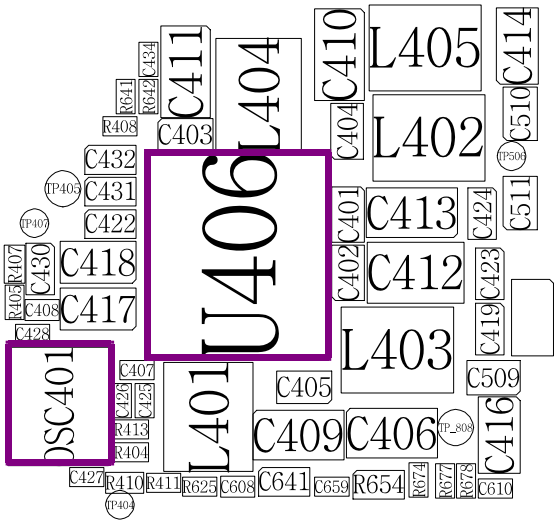

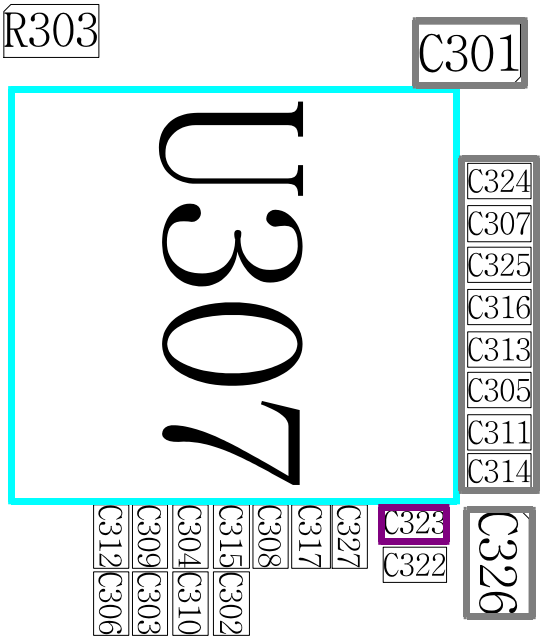

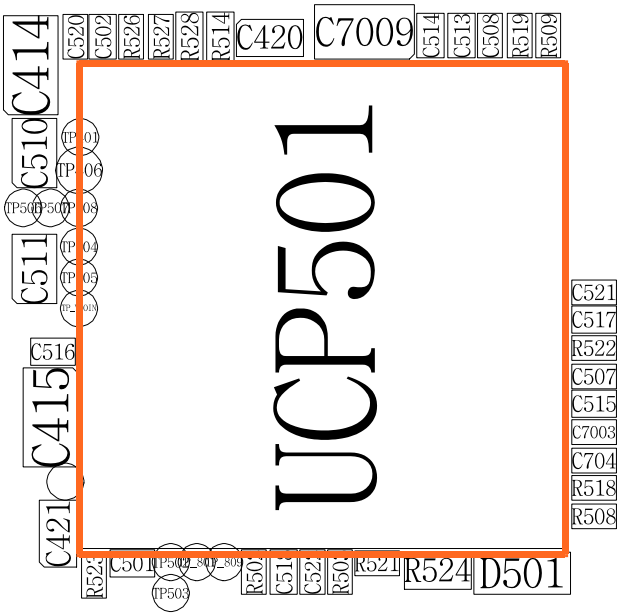

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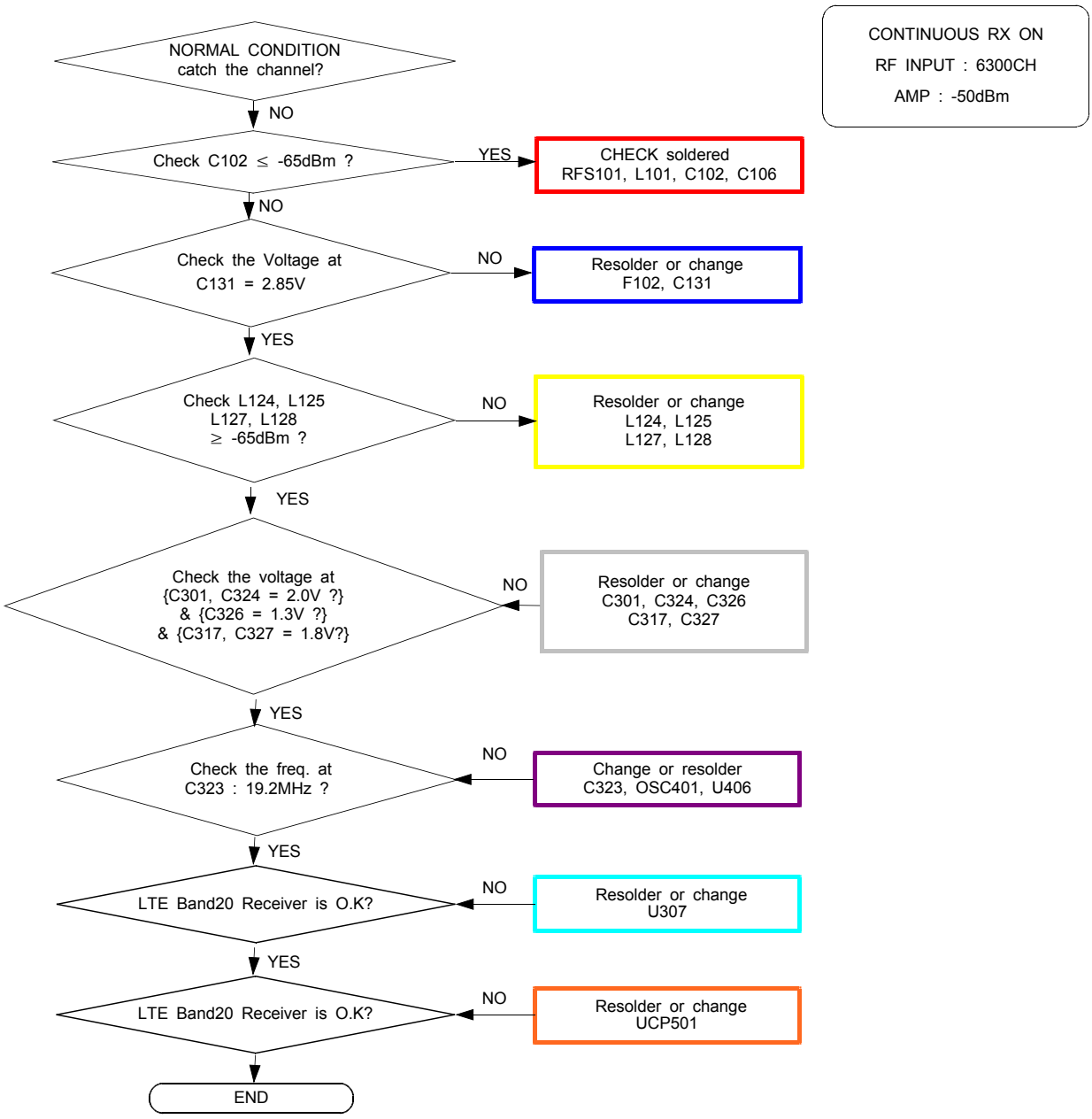
8-3-27. LTE Band20 RX



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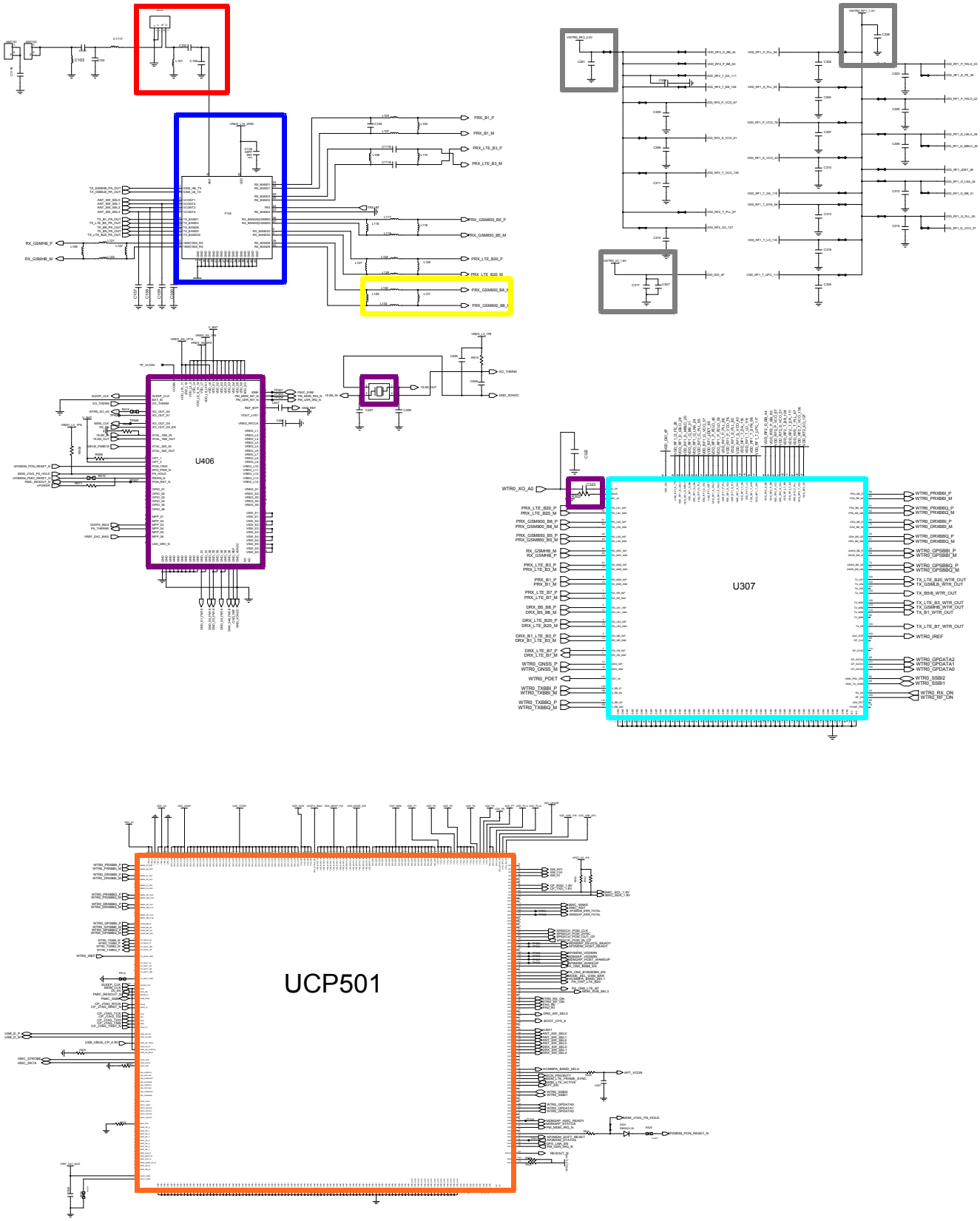

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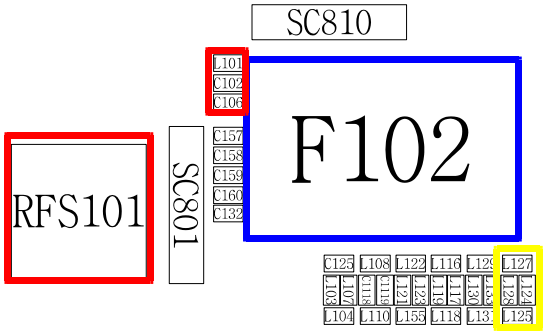

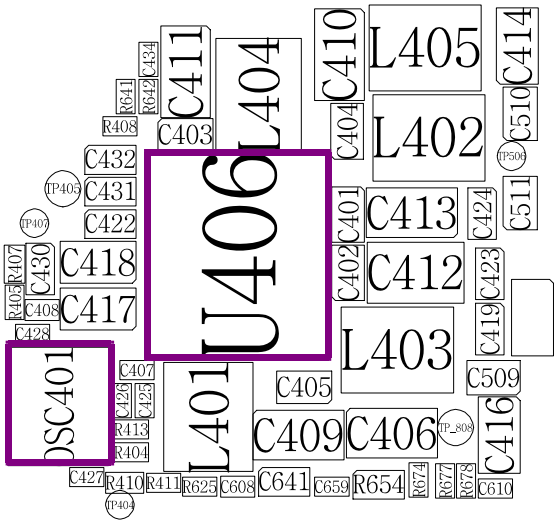

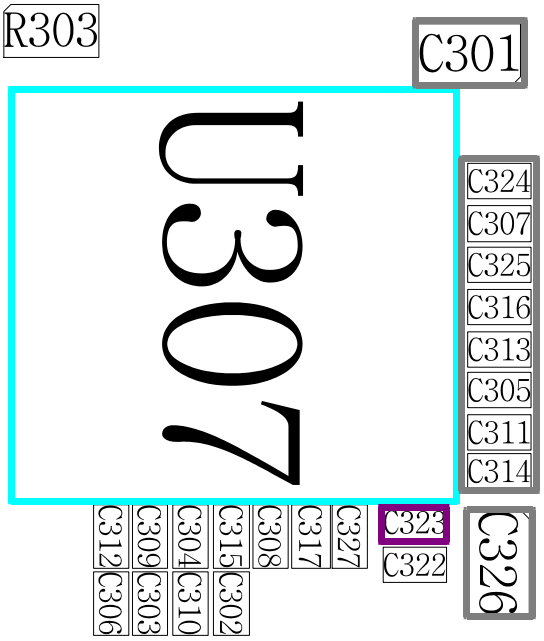

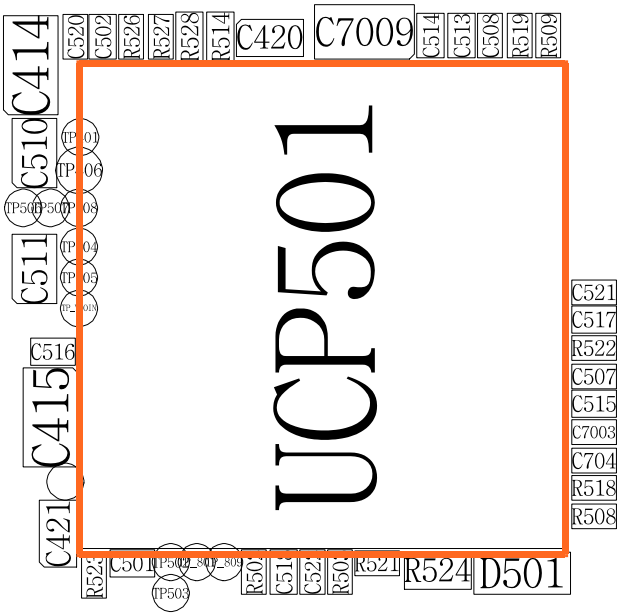

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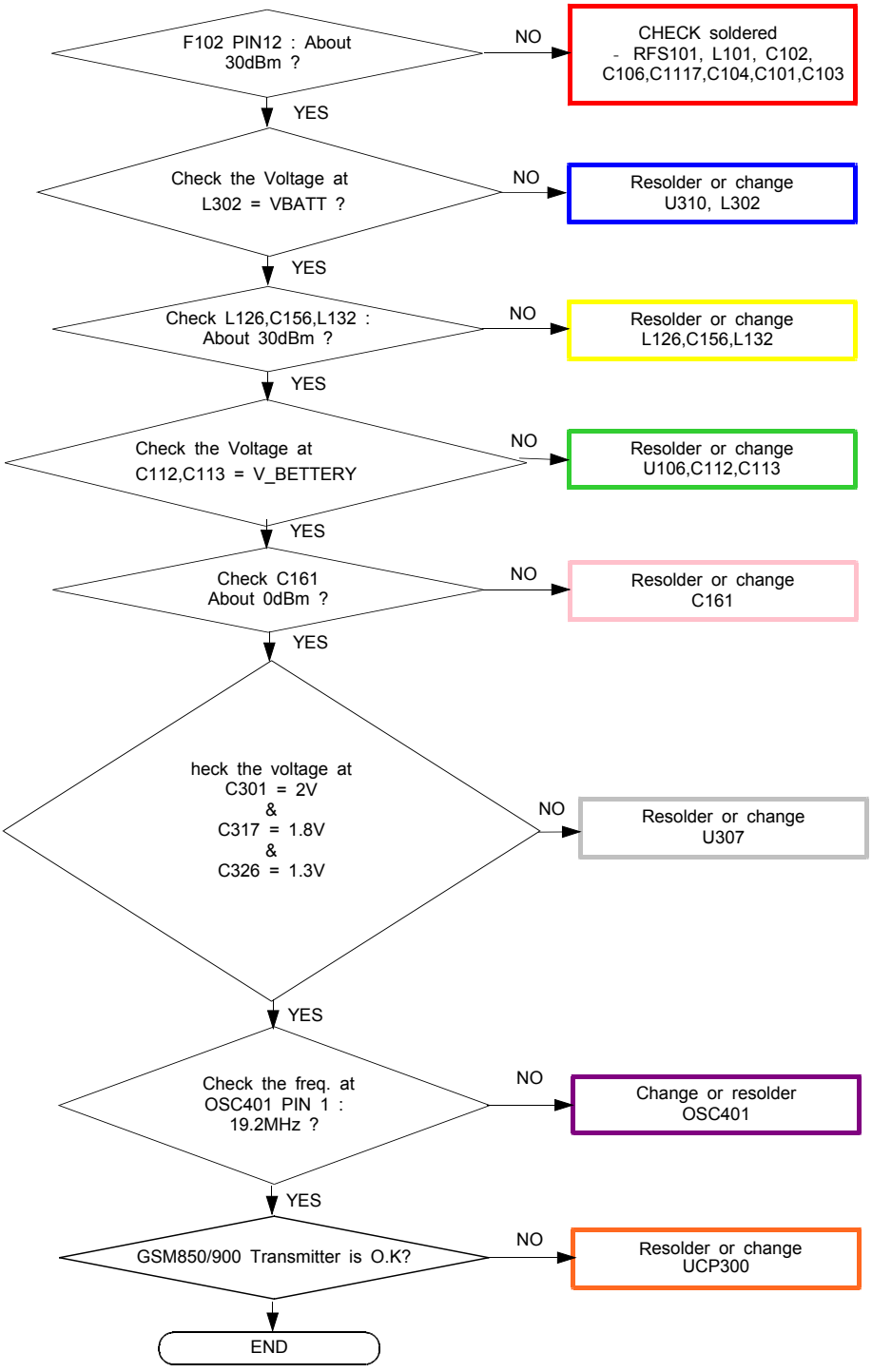
8-3-28. GSM850/GSM900 TX

CONTINUOUS TX ON CONDITION
TX POWER IDX1 APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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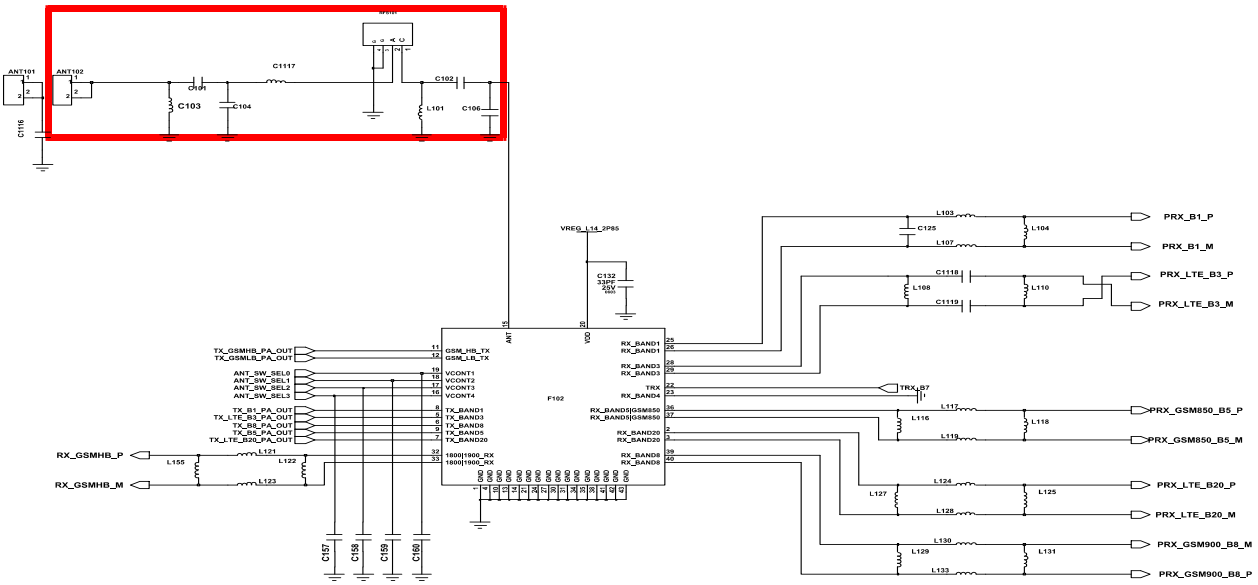

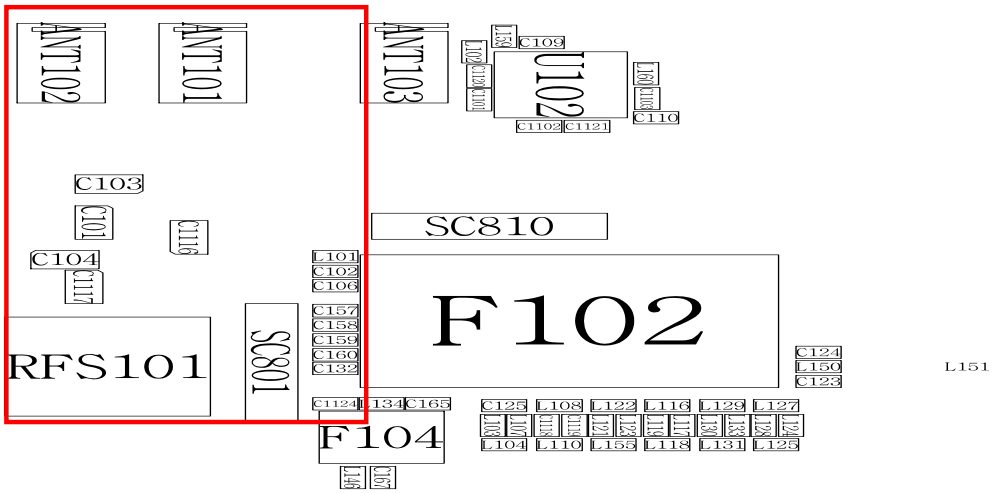

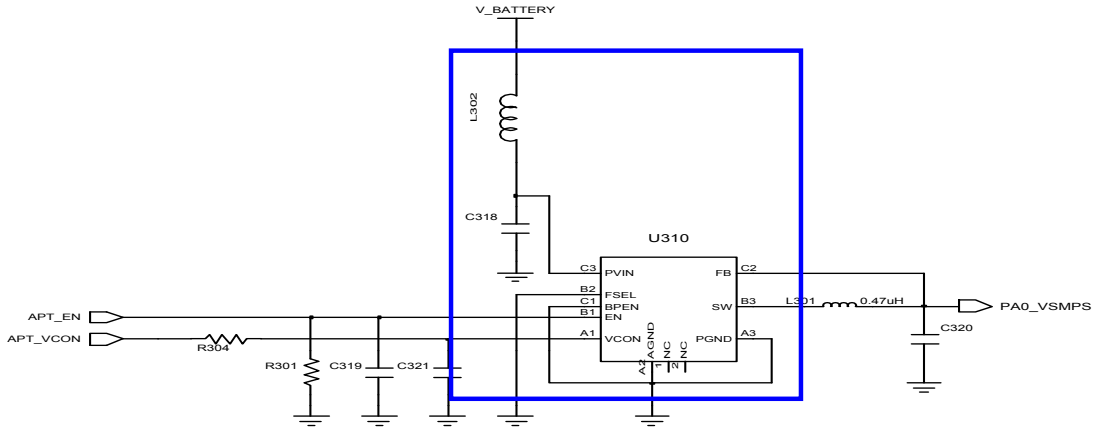

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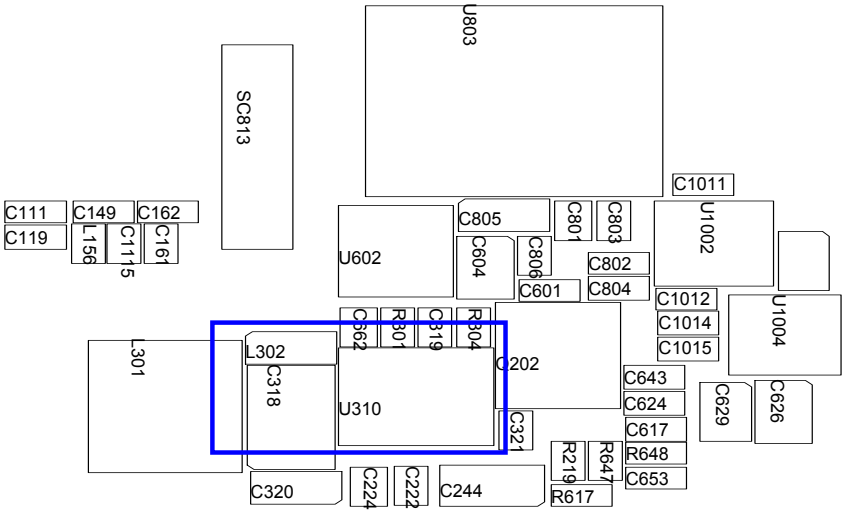

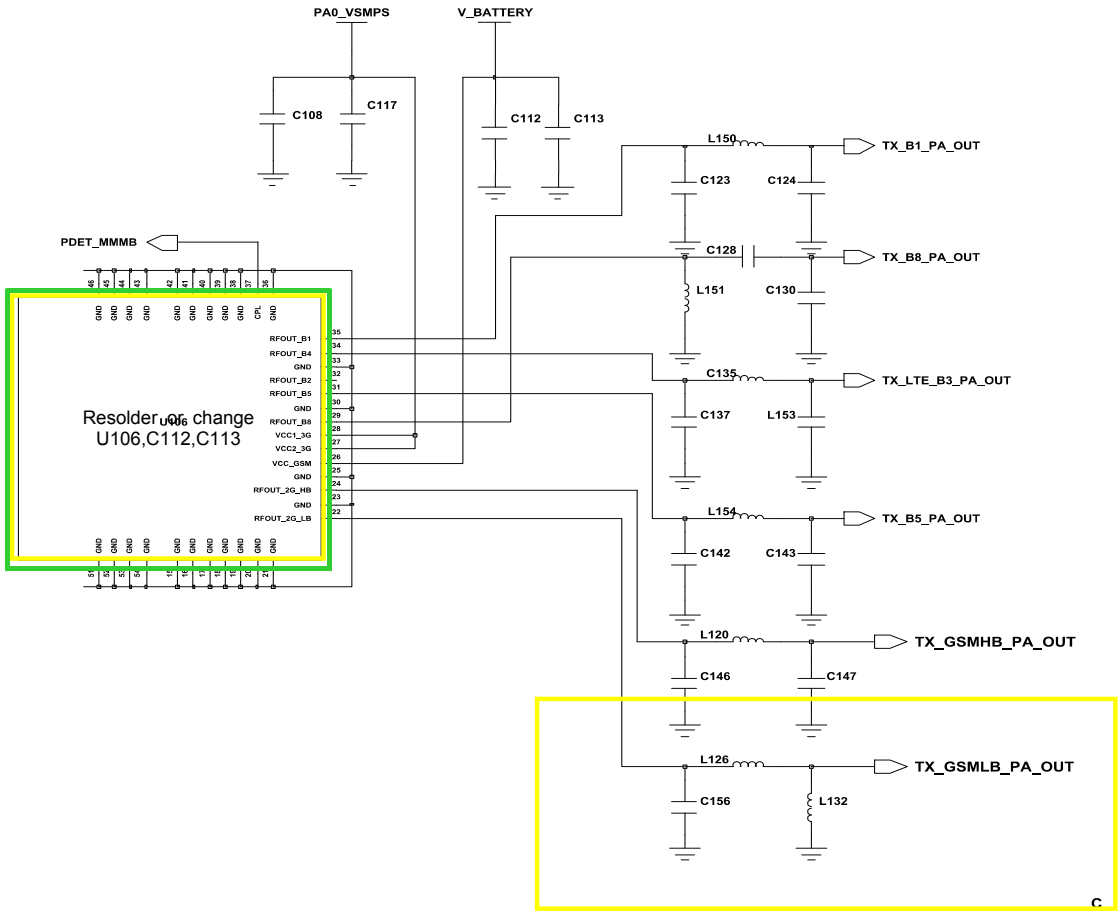

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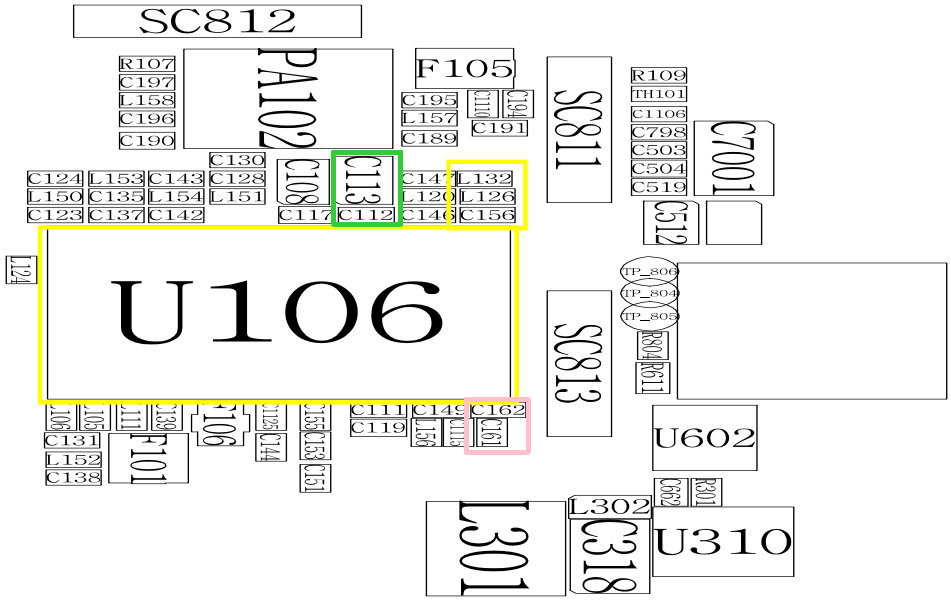

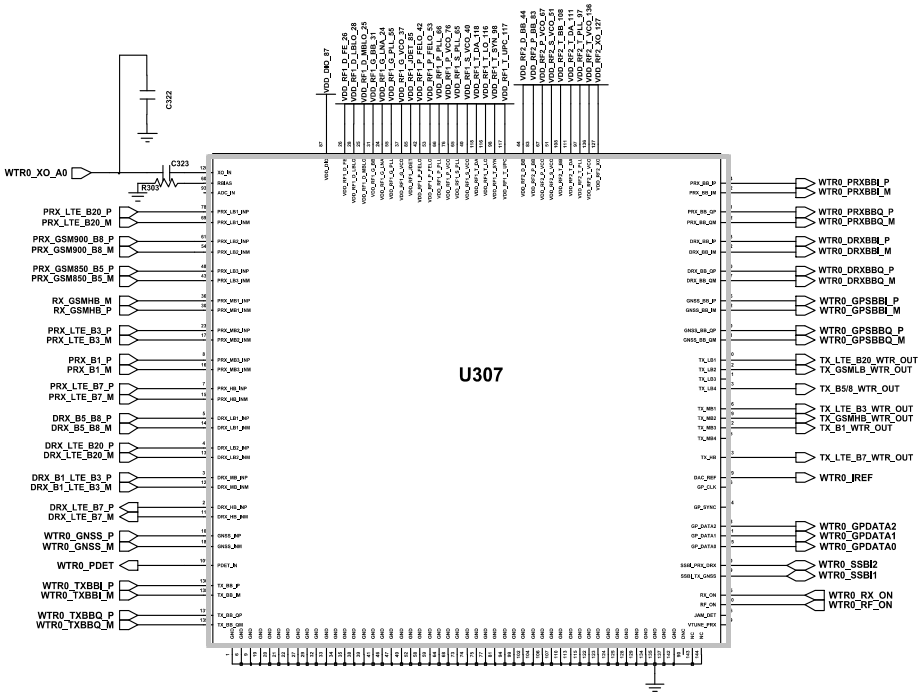

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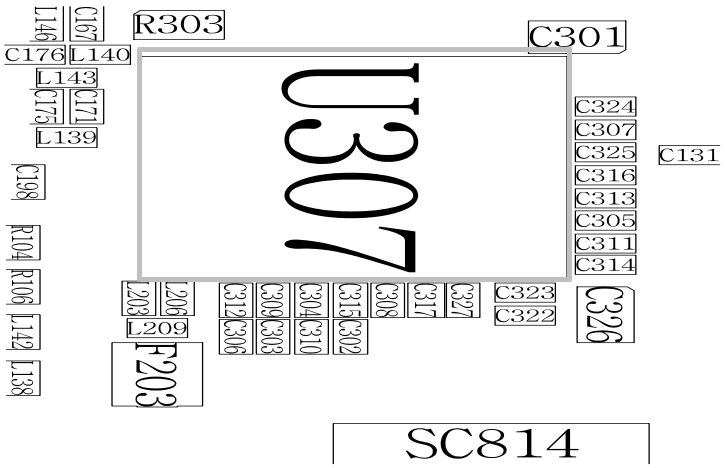

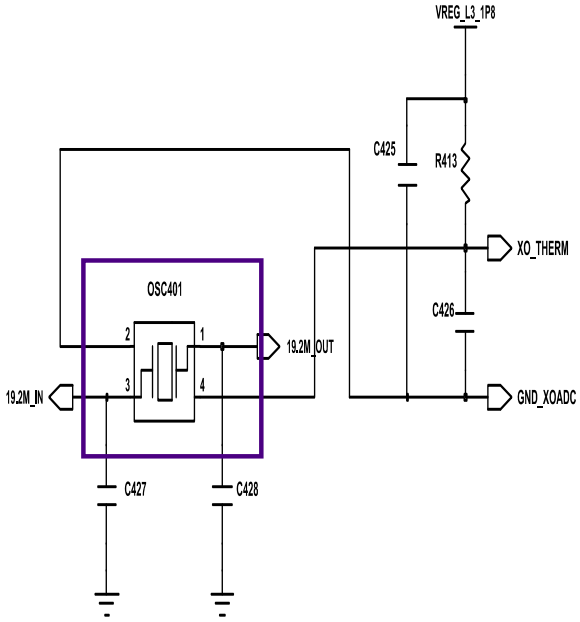

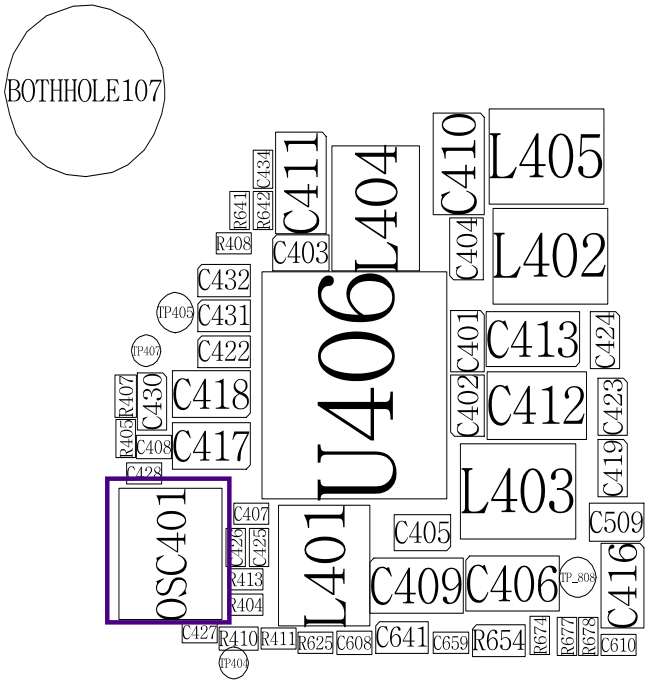

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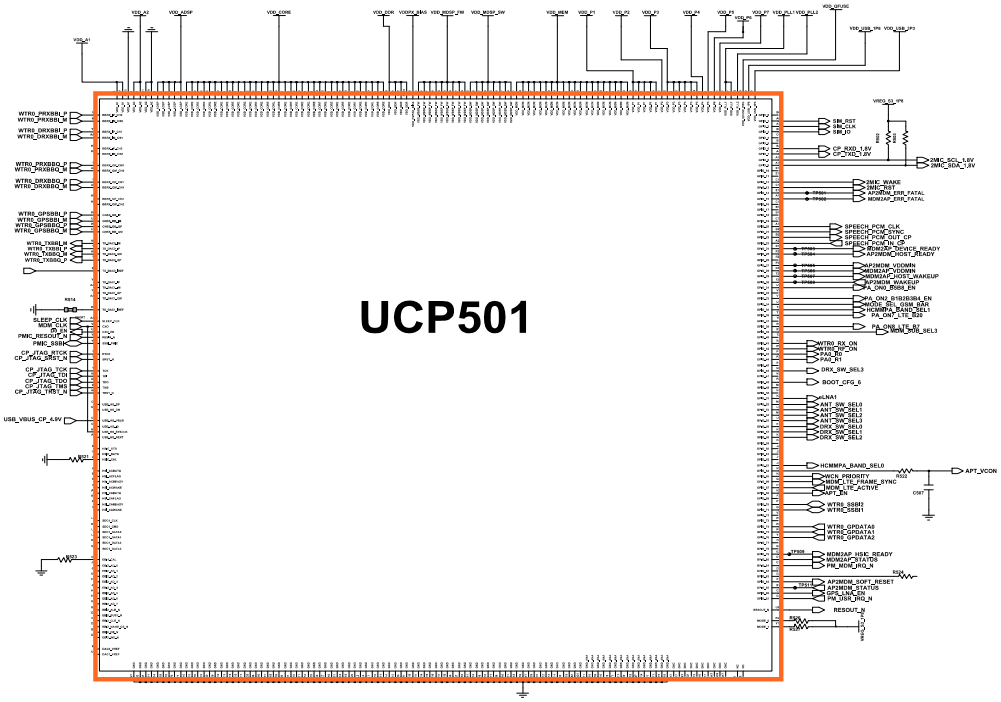

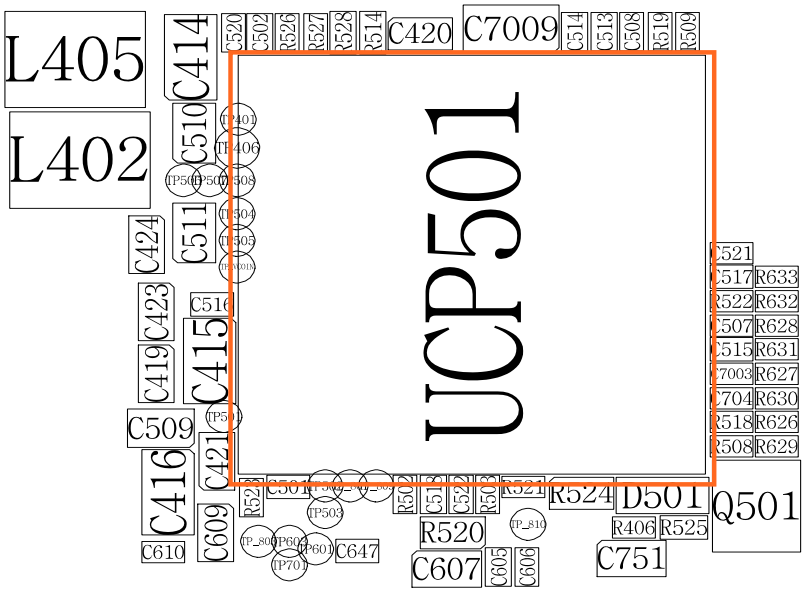

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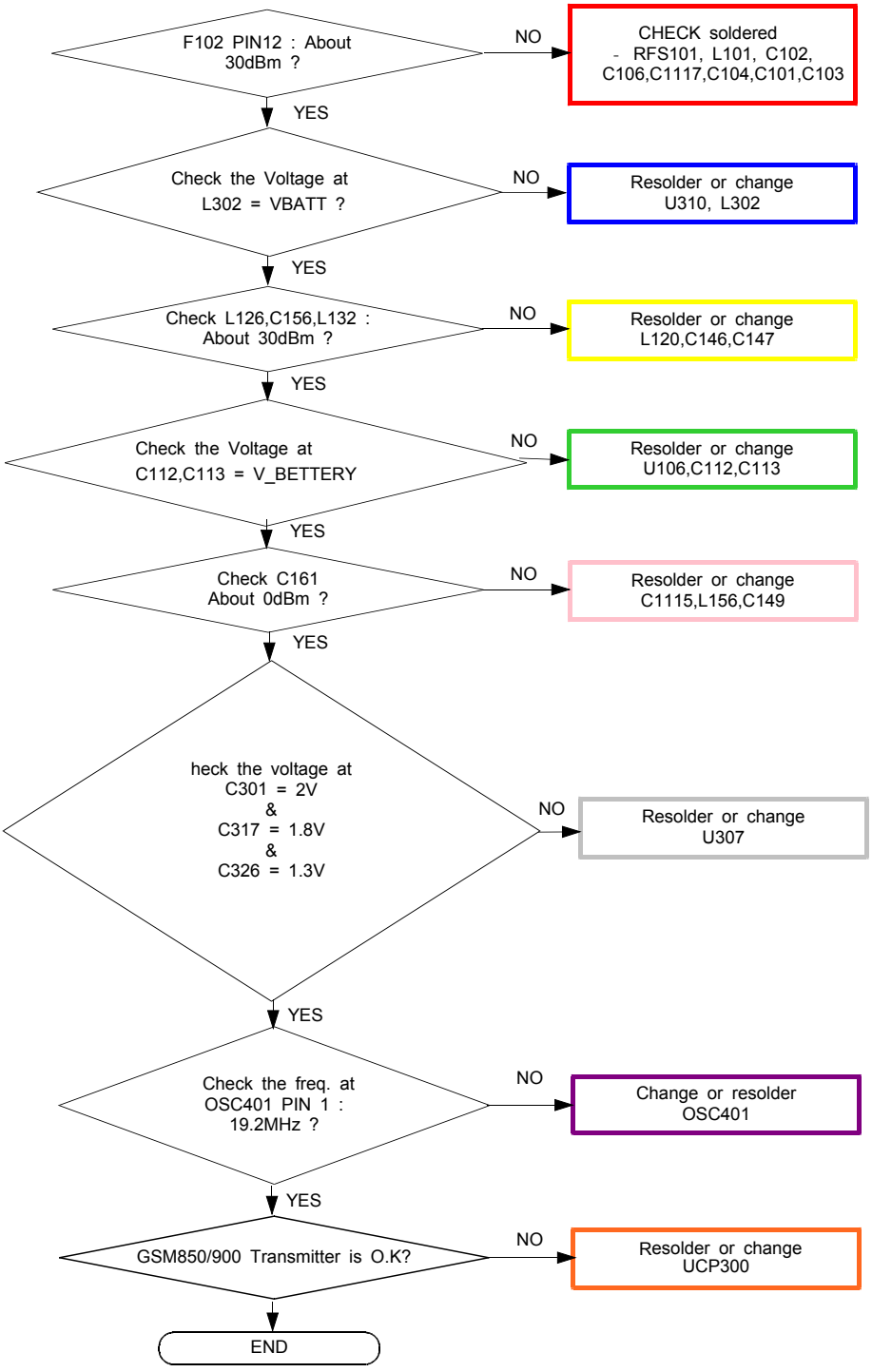
8-3-29. DCS/PCS TX

CONTINUOUS TX ON CONDITION
TX POWER IDX1 APPLIED
DCS CH : 698
PCS CH : 661
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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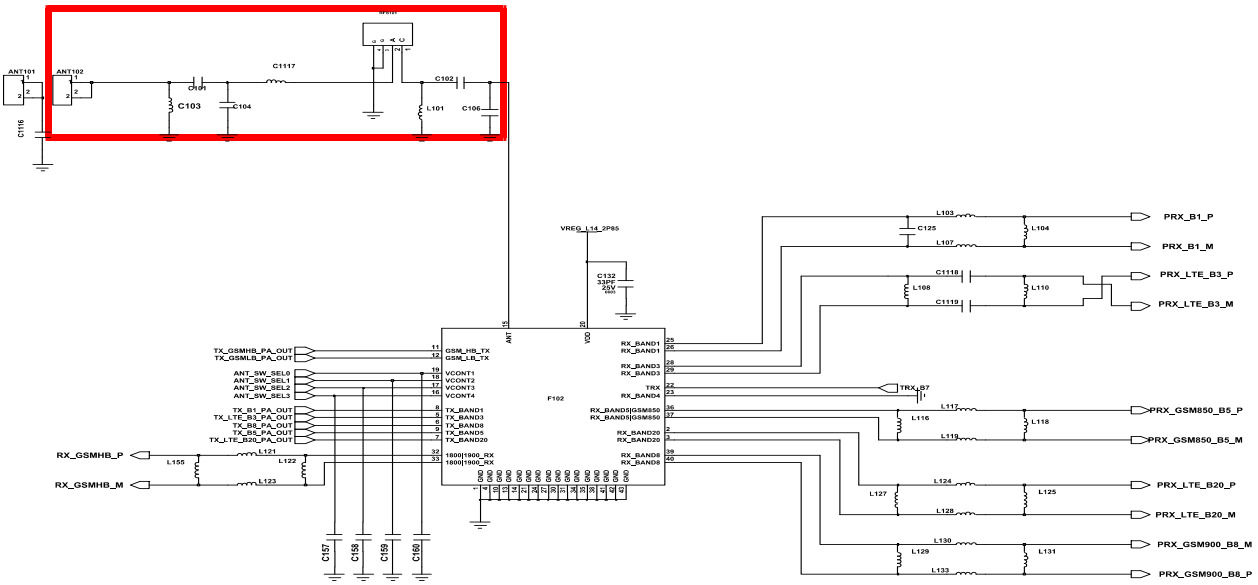

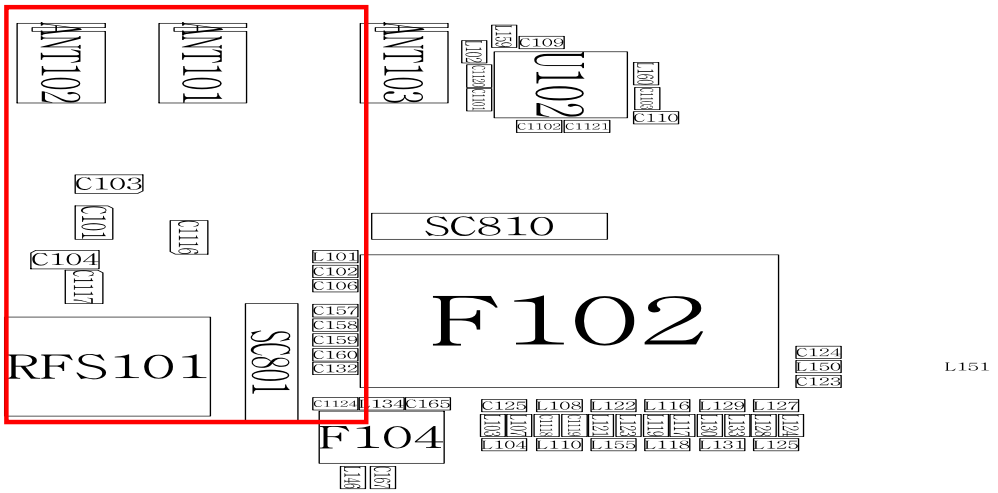

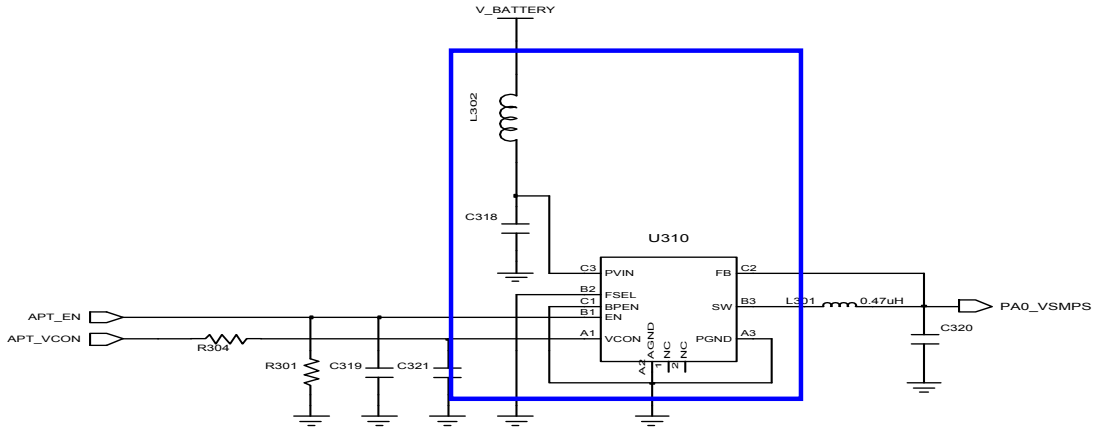

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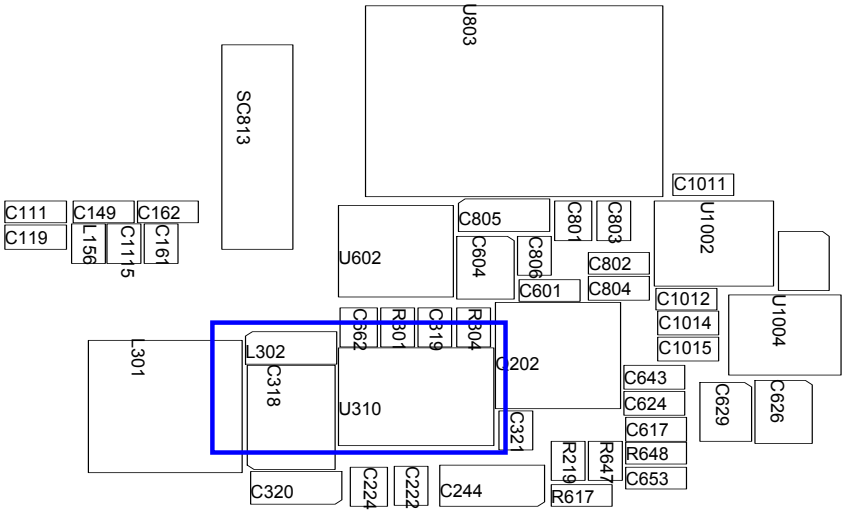

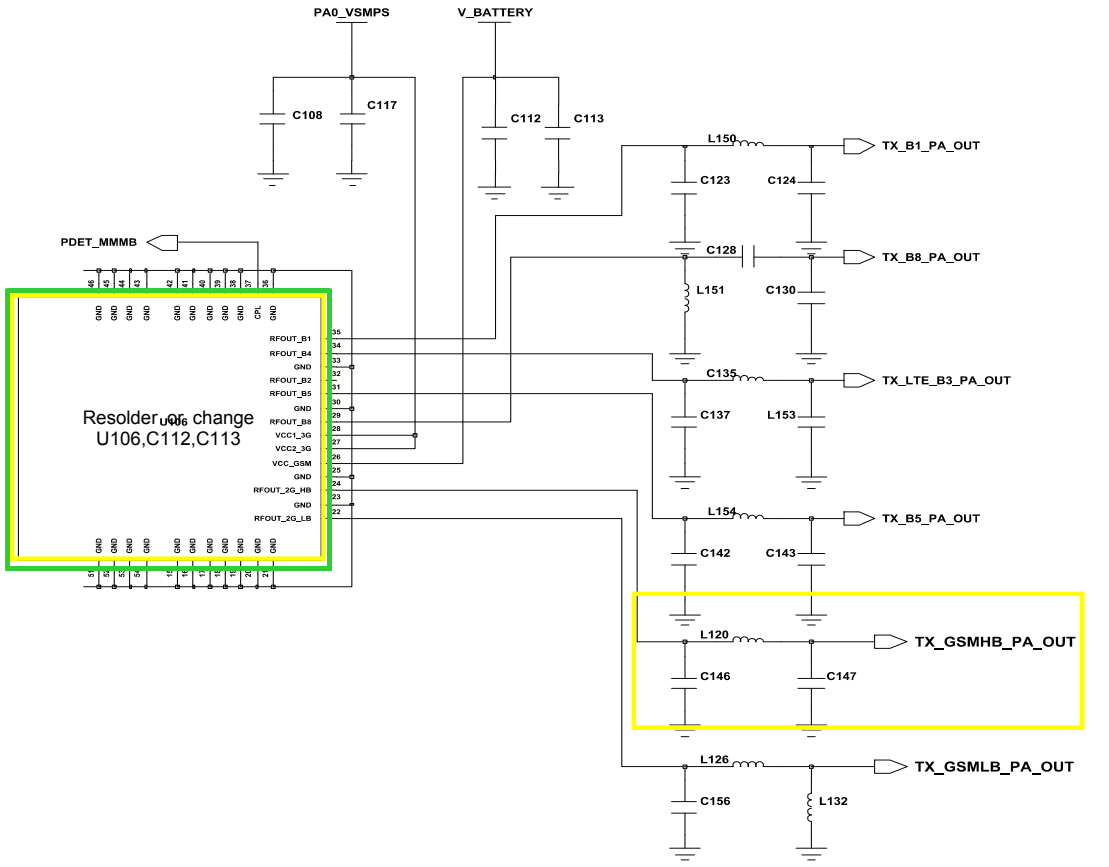

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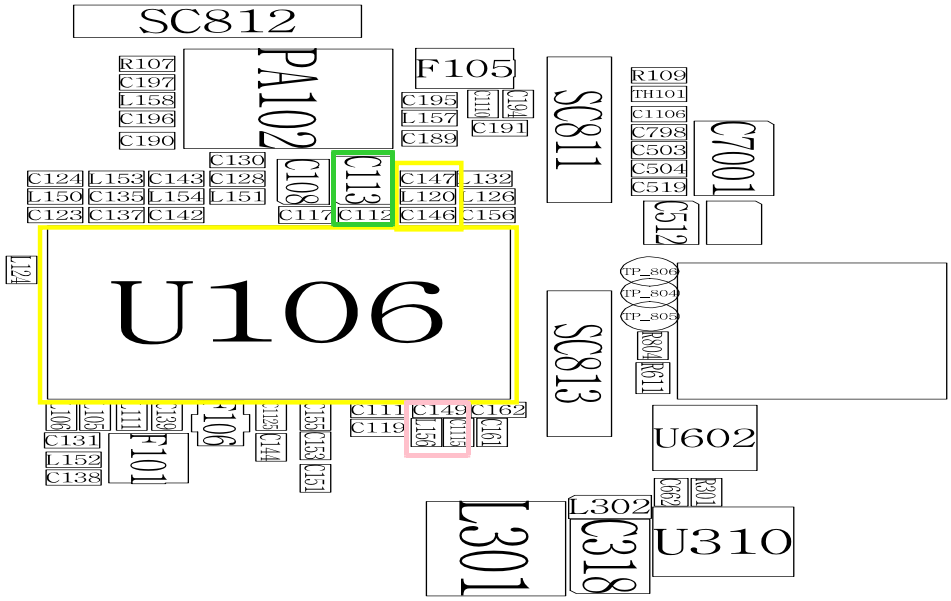

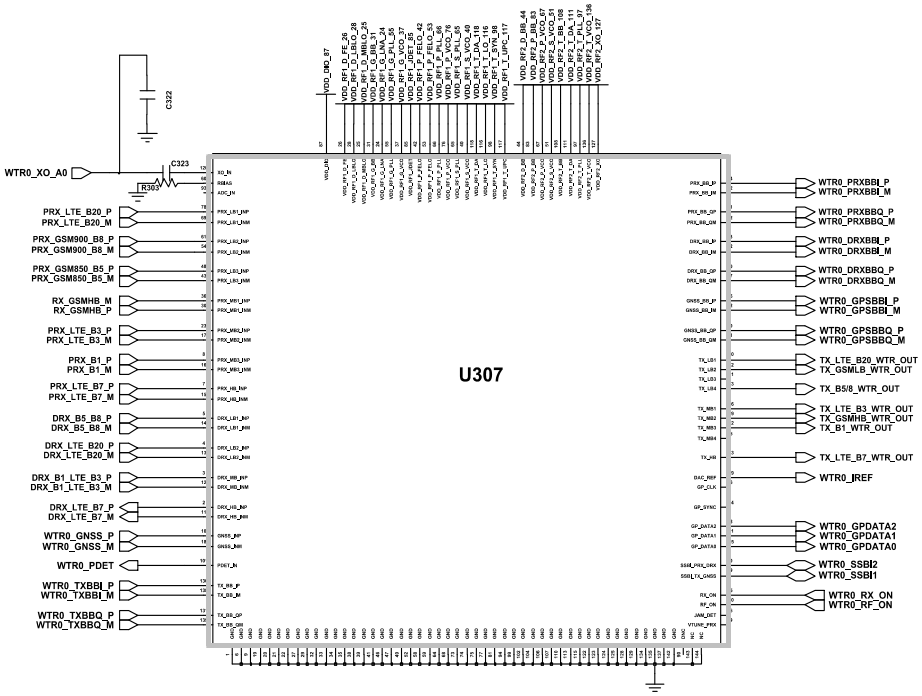

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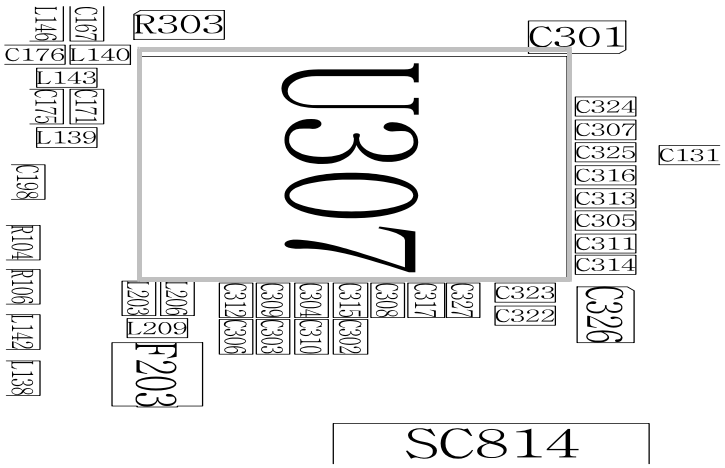

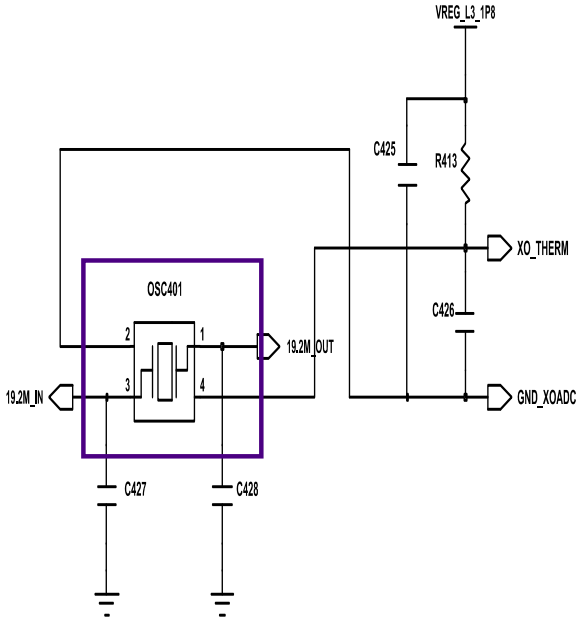

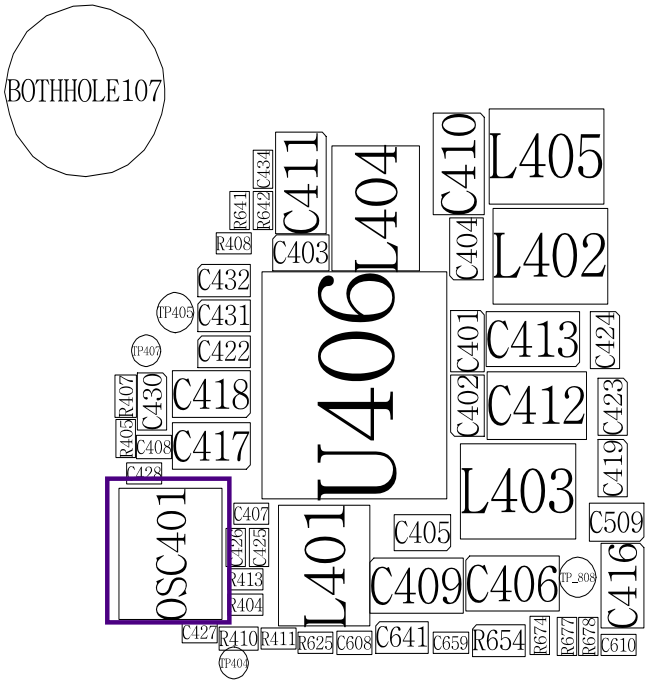

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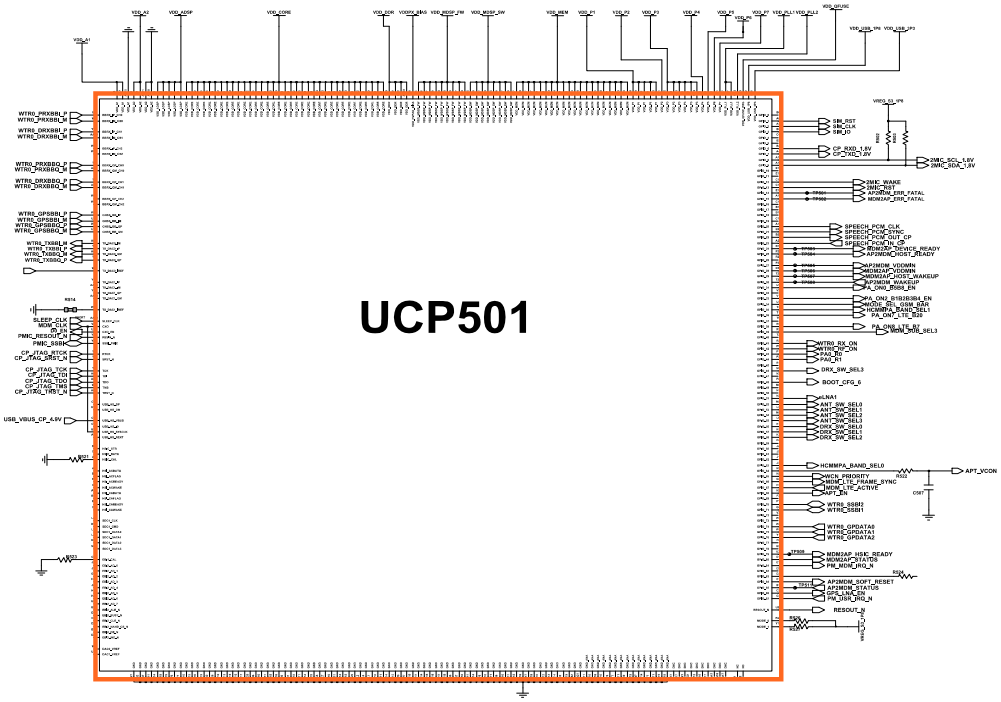

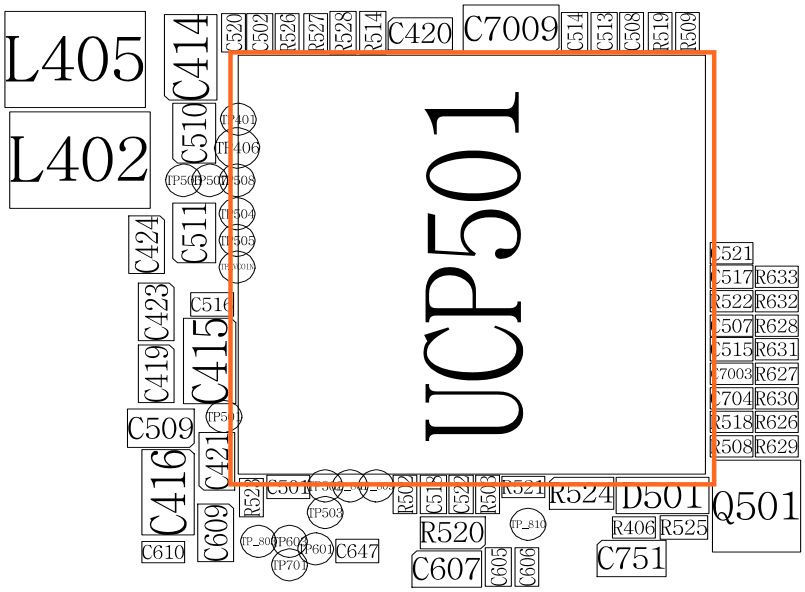

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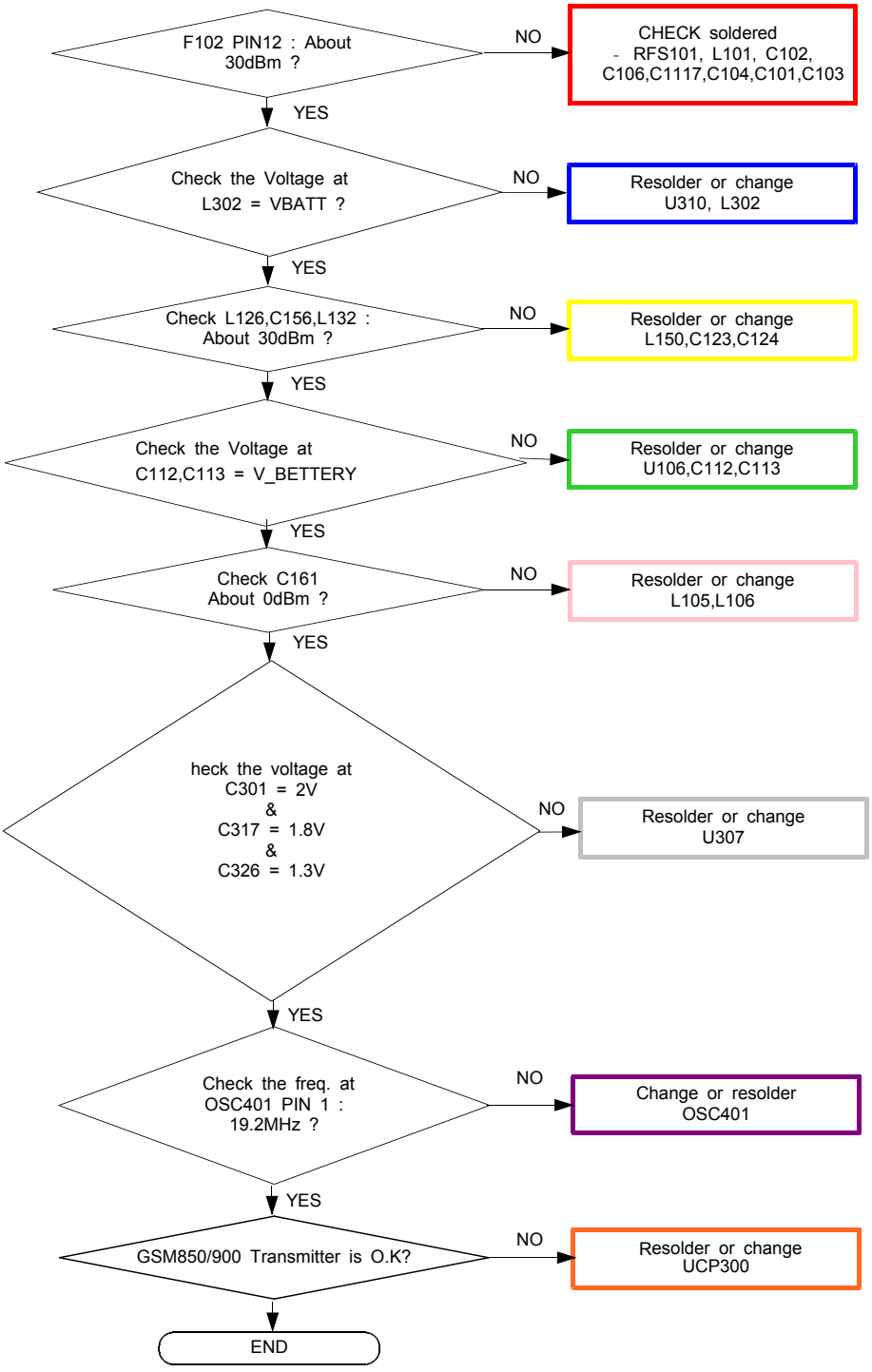
8-3-30. WCDMA2100 TX

CONTINUOUS TX ON CONDITION
TX POWER IDX1 APPLIED
WCDMA2100 CH : 9750
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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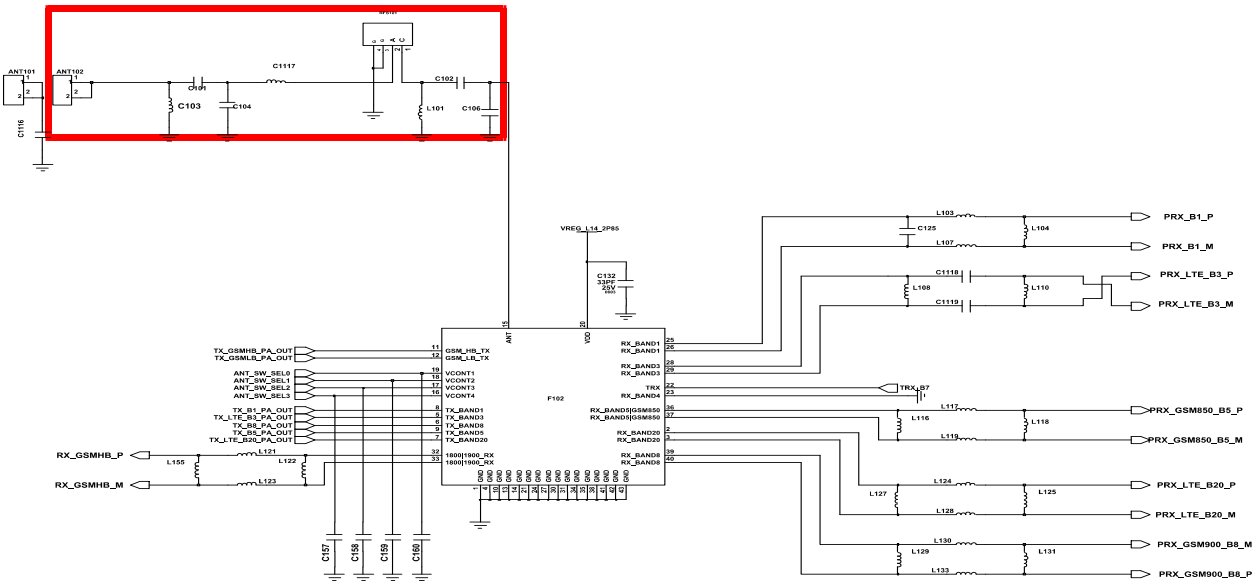

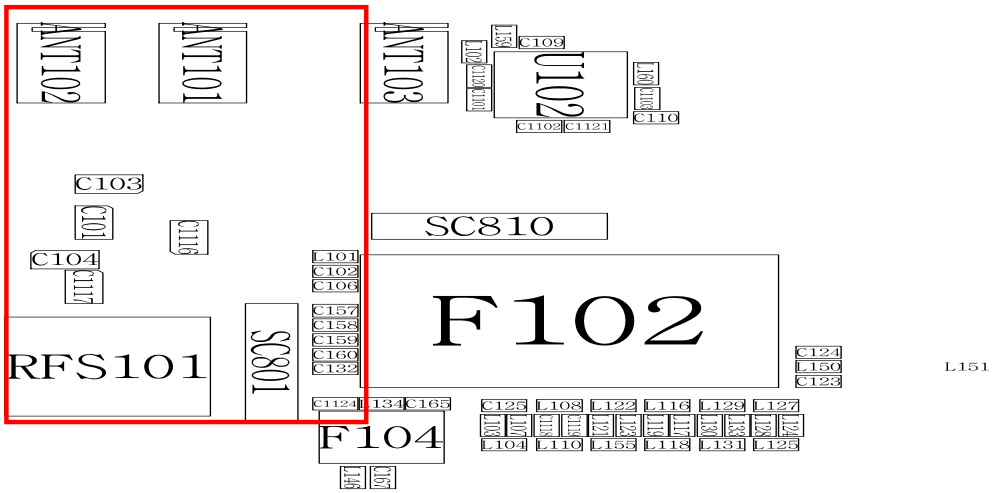

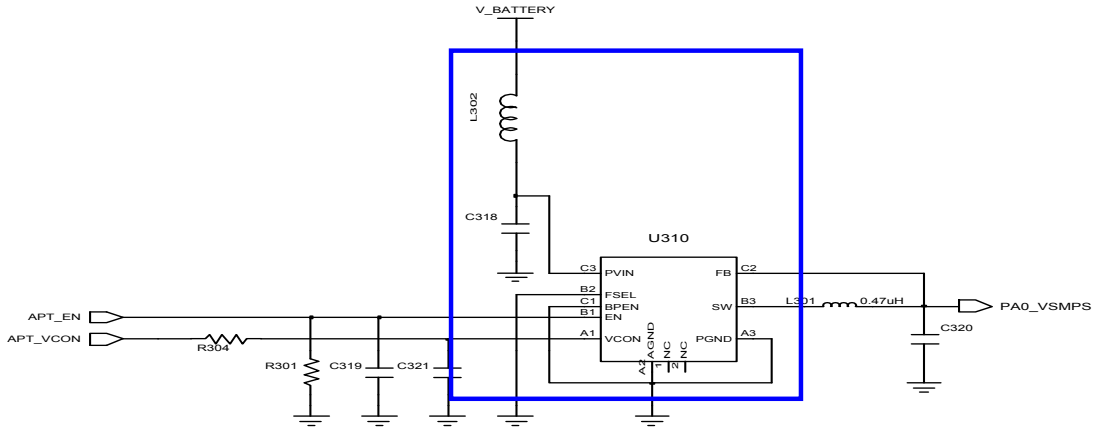

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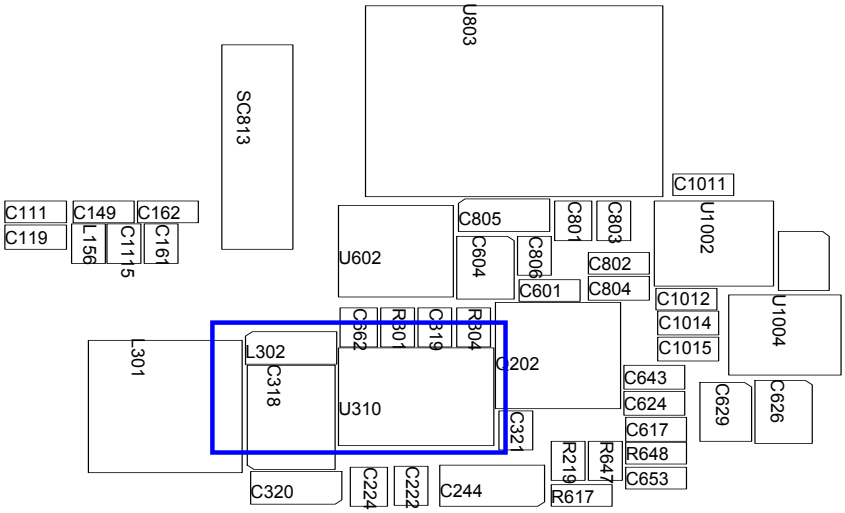

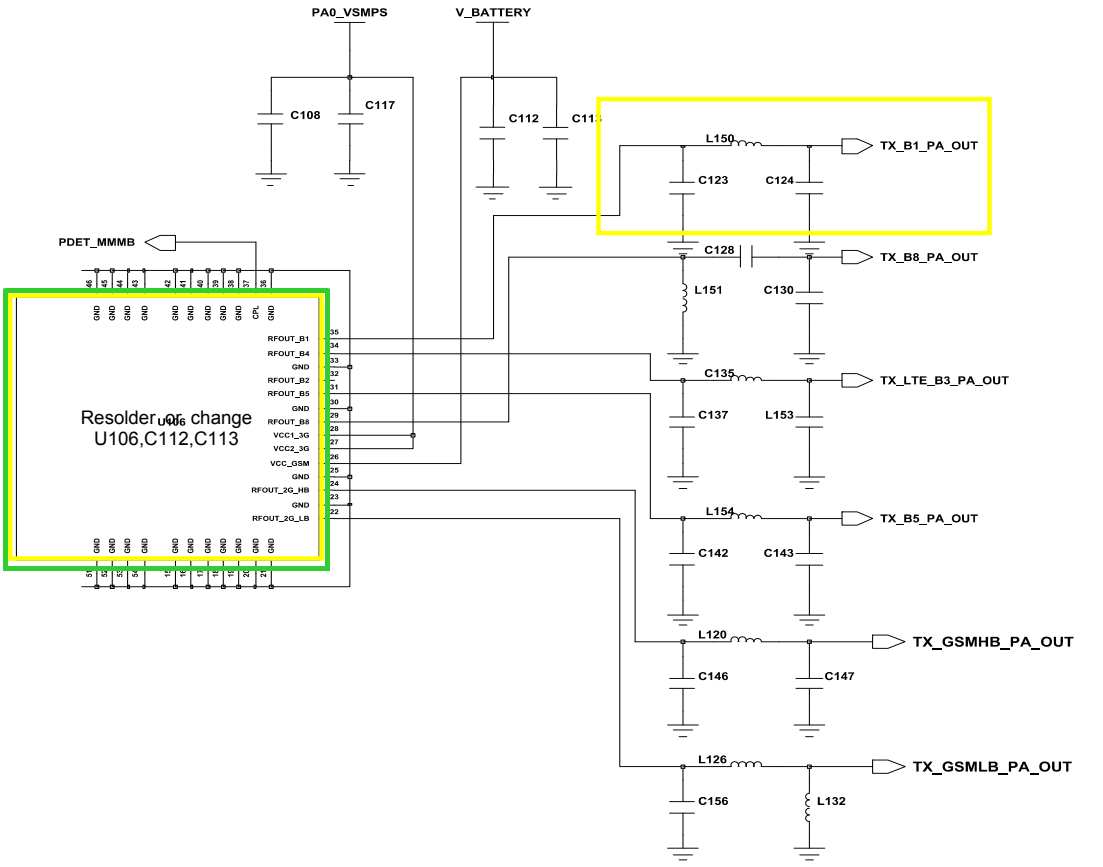

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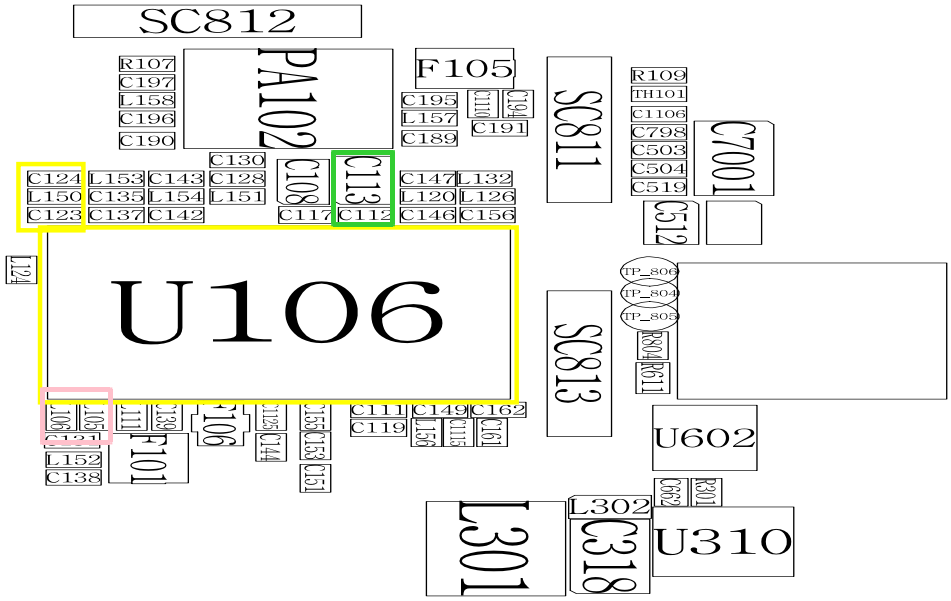

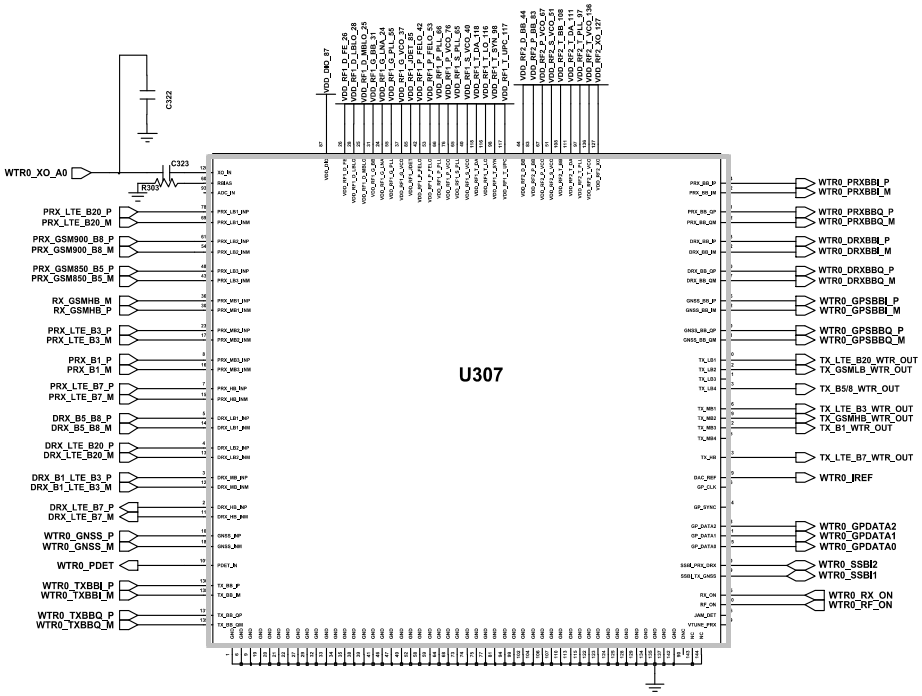

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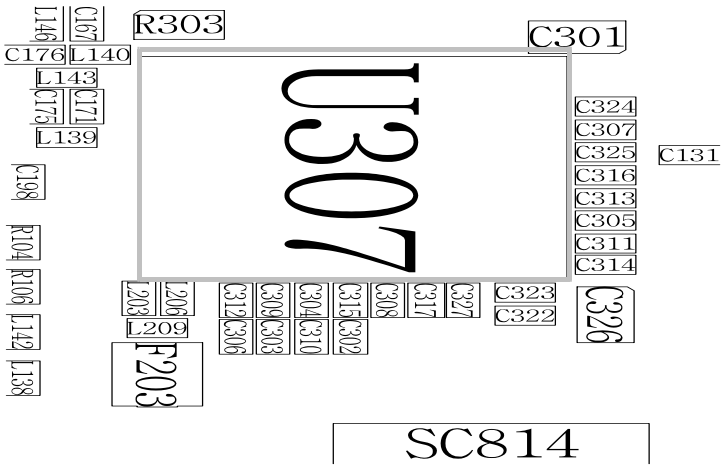

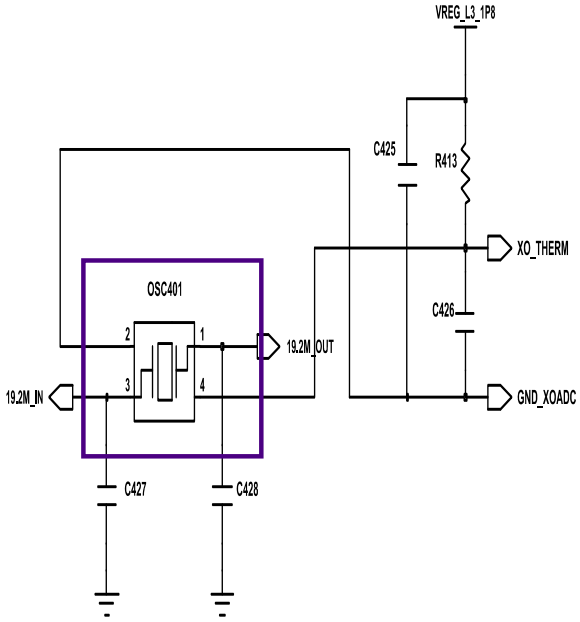

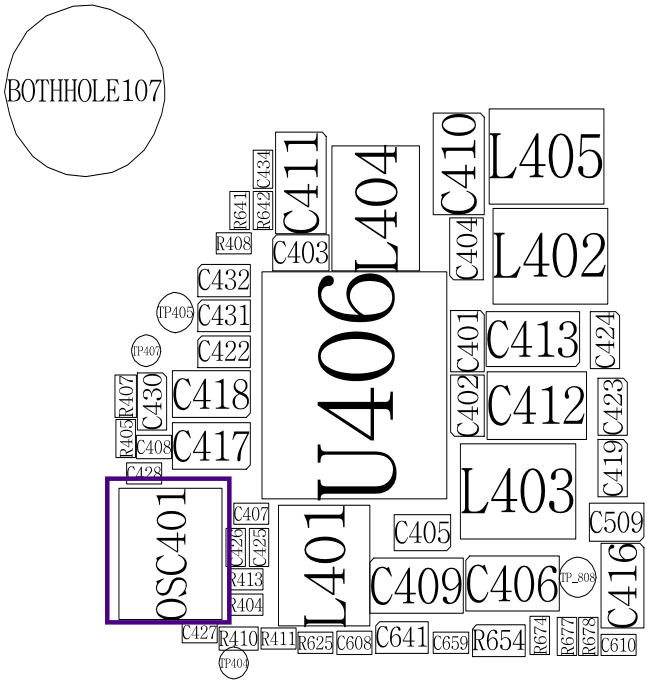

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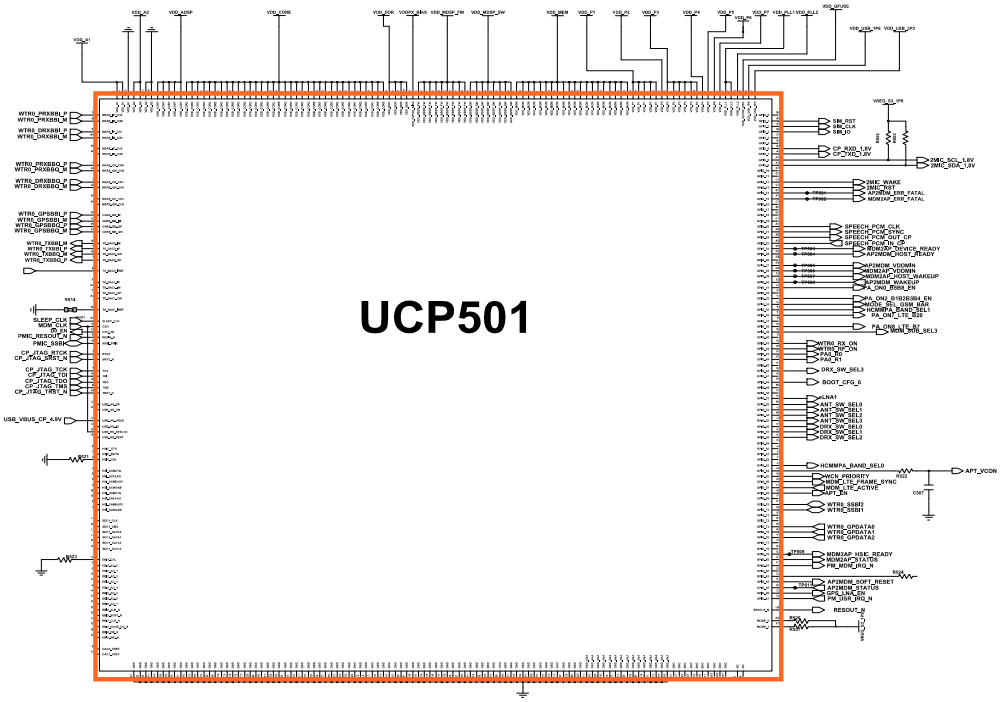

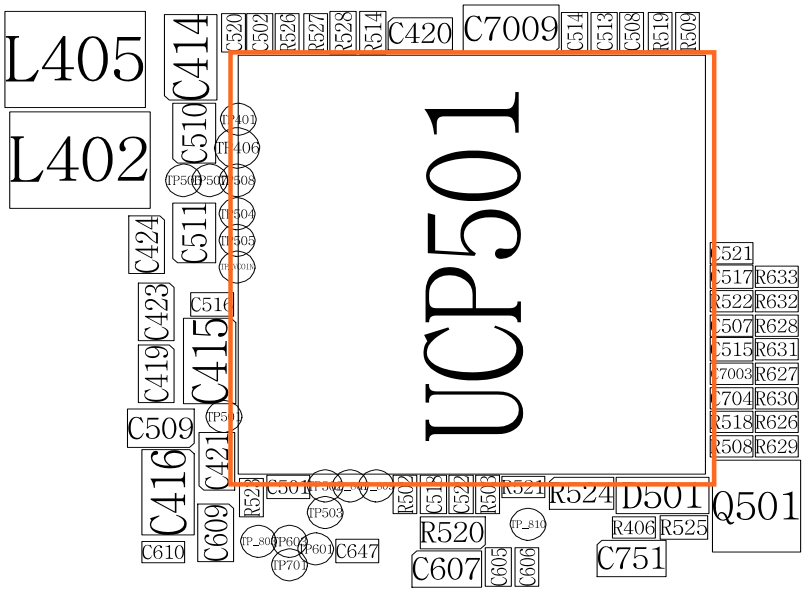

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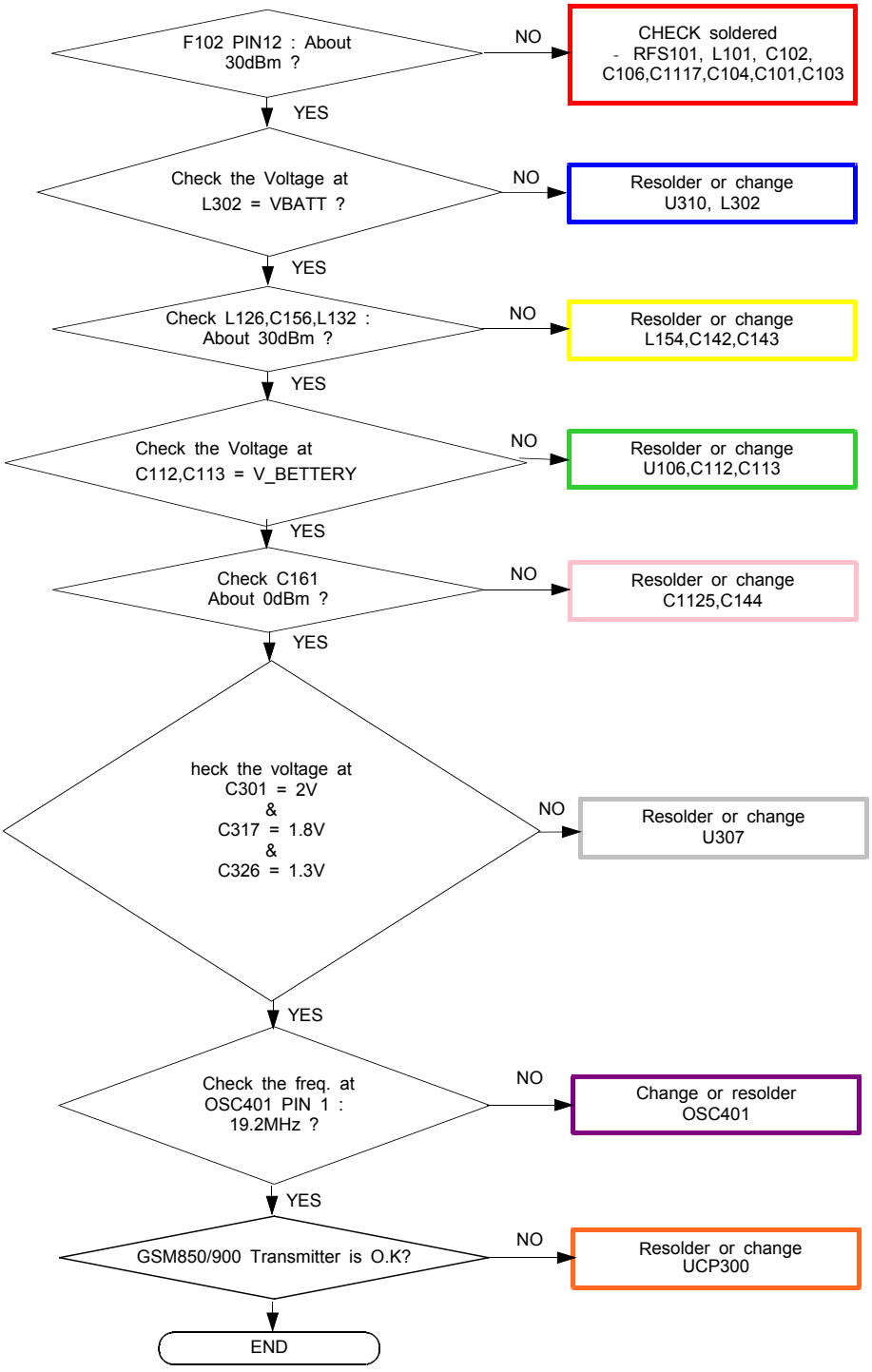
8-3-31. WCDMA850 TX

CONTINUOUS TX ON CONDITION
TX POWER IDX1 APPLIED
WCDMA850 CH : 4182
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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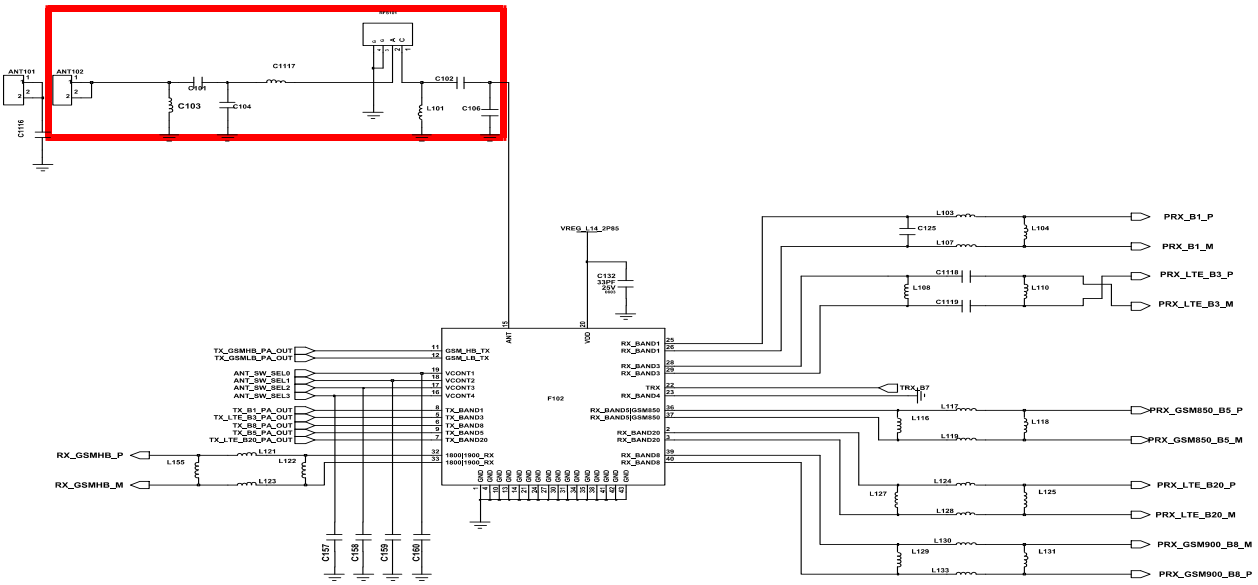

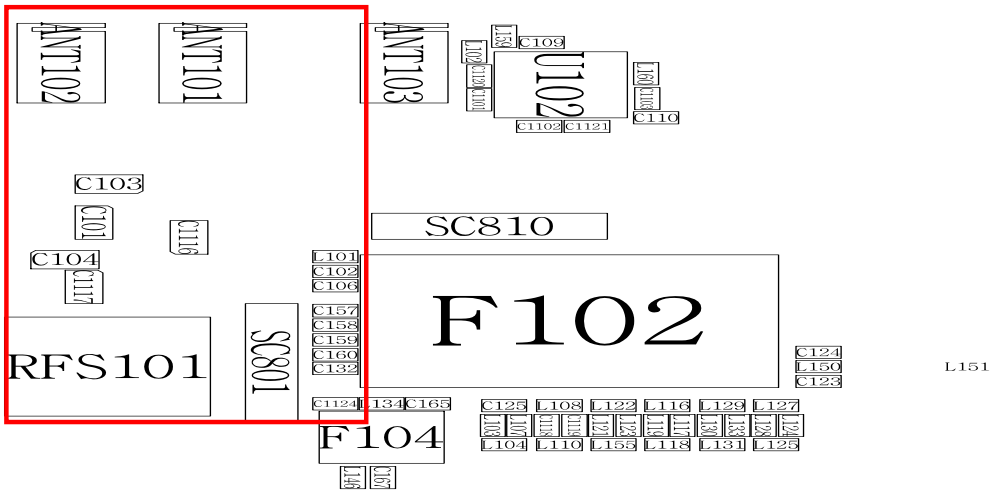

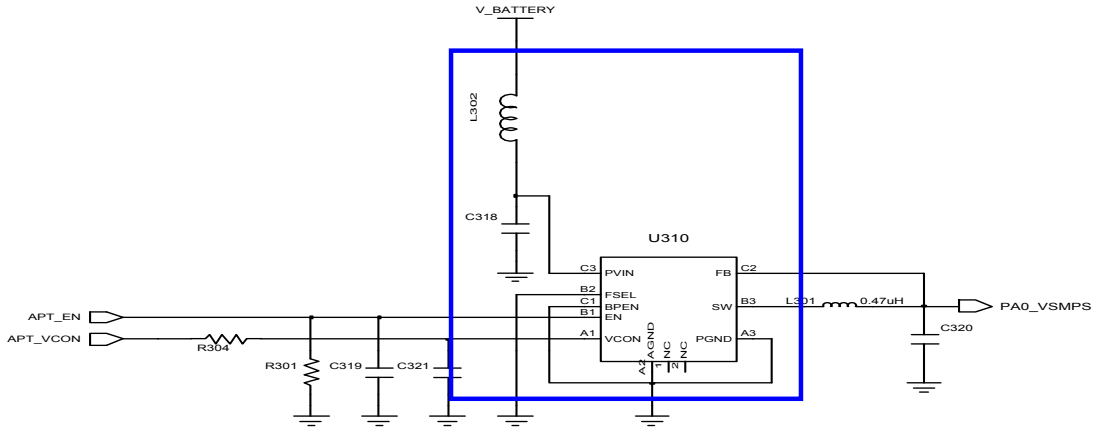

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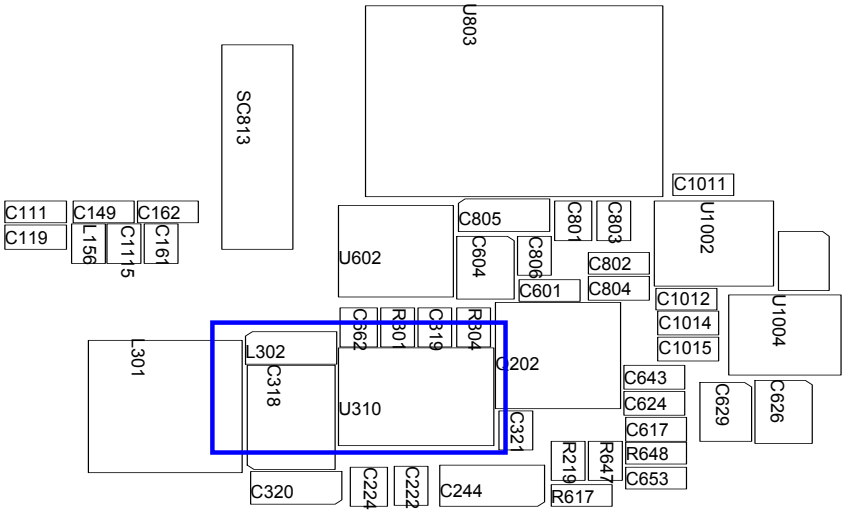

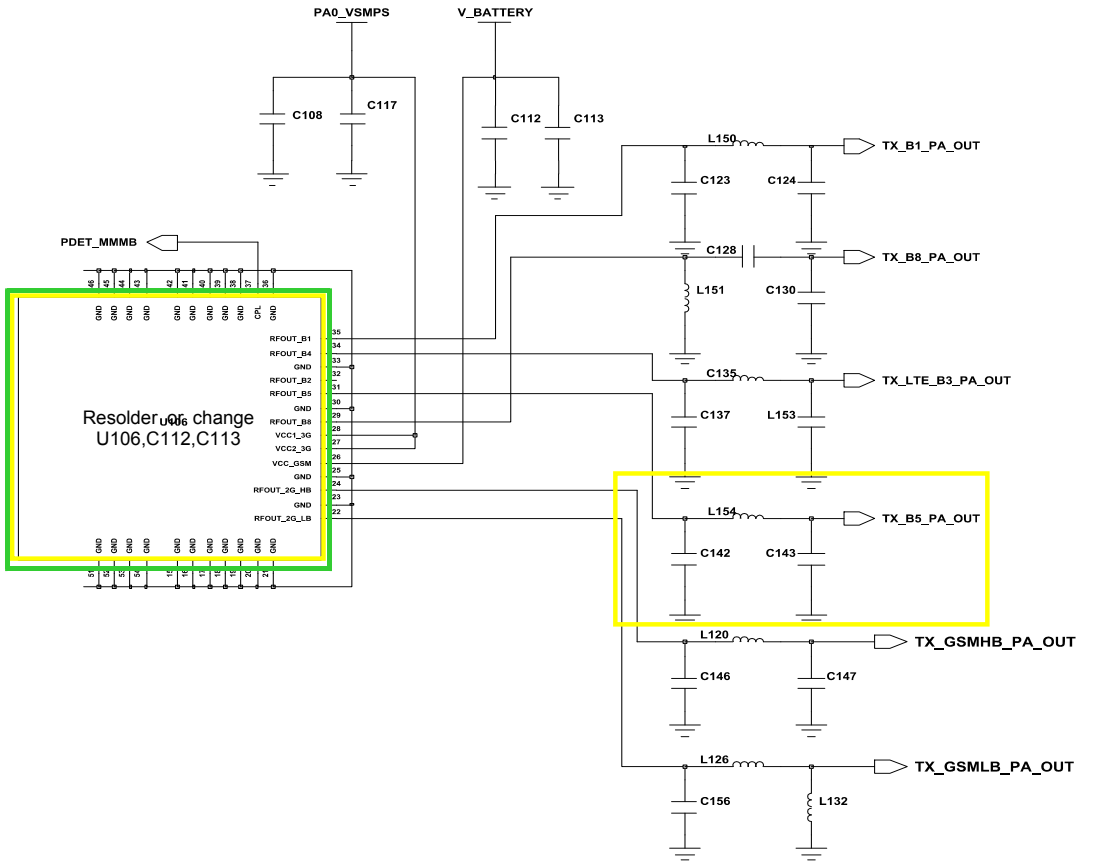

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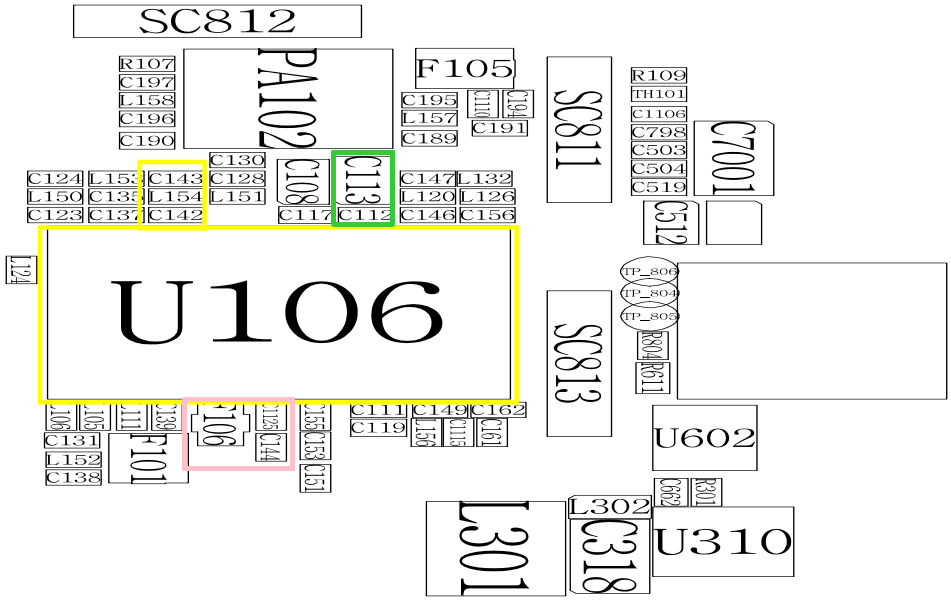

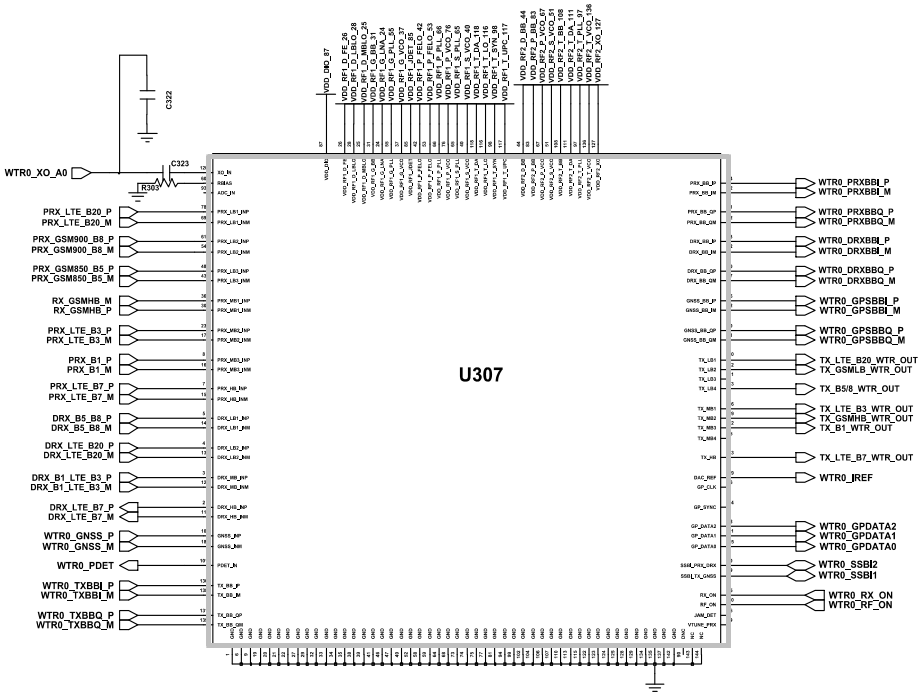

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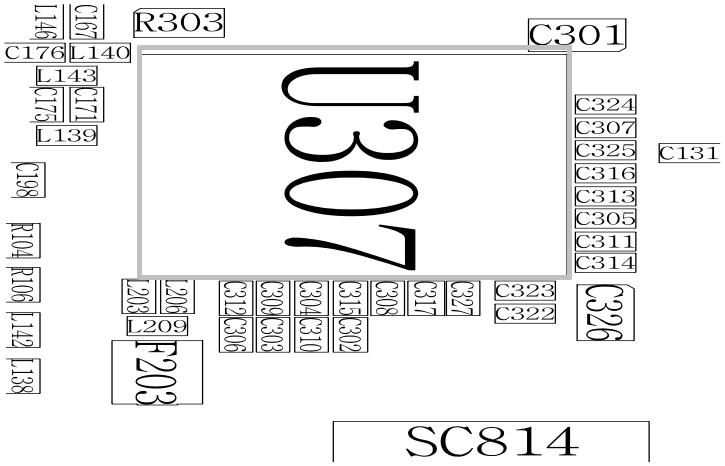

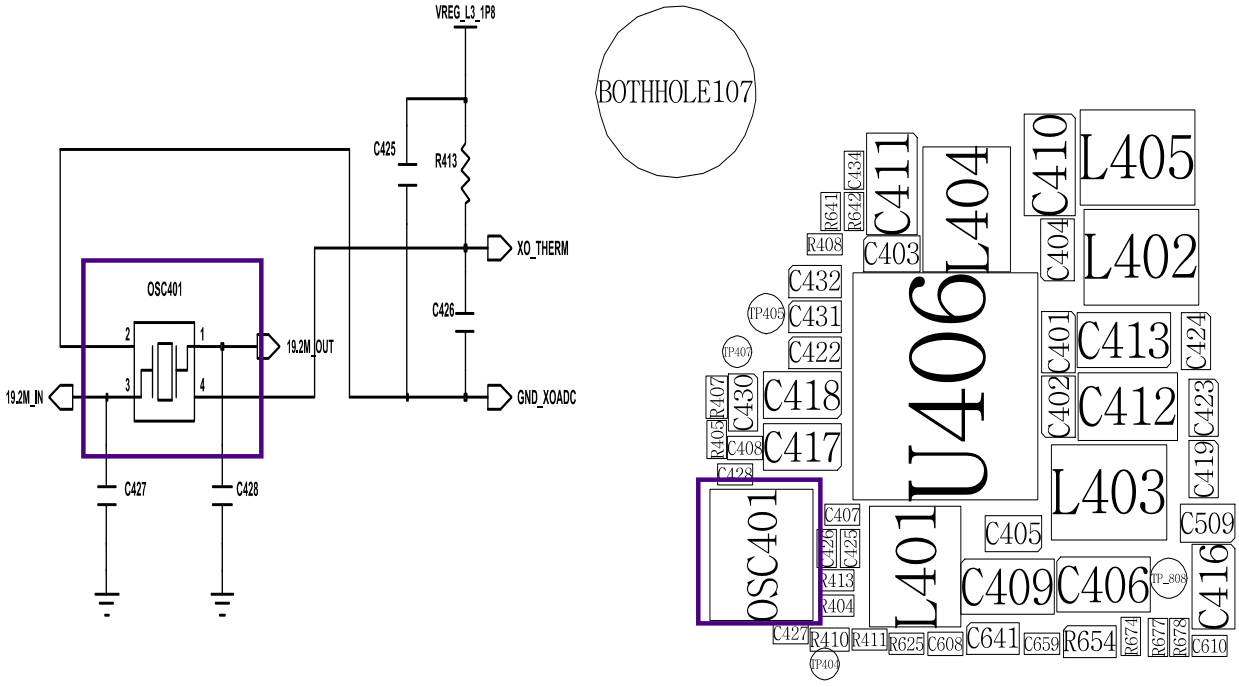

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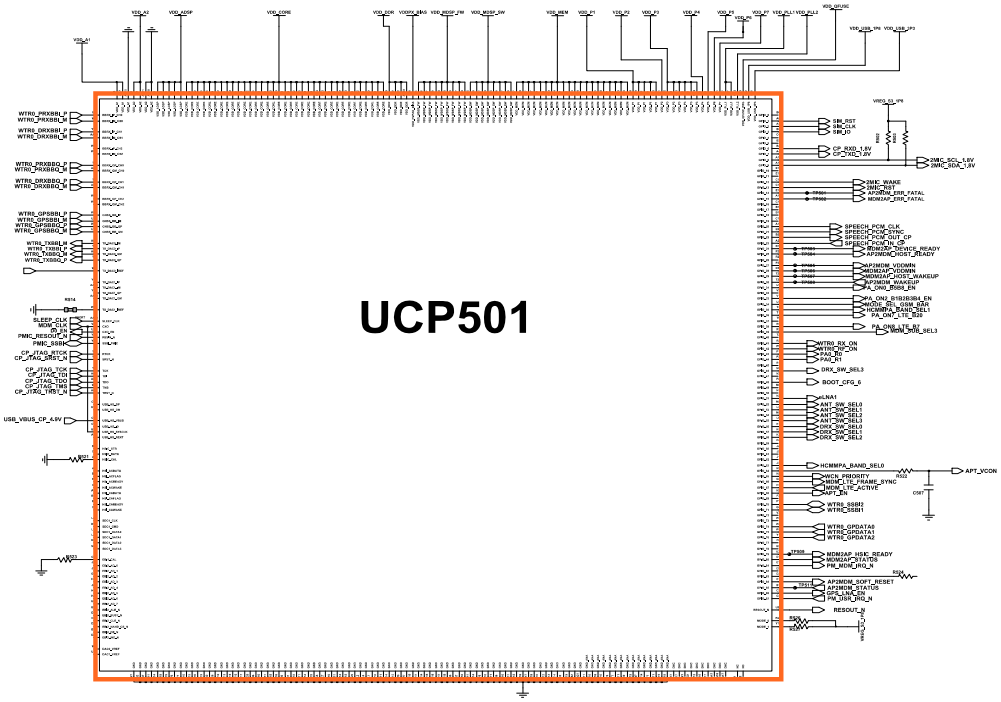

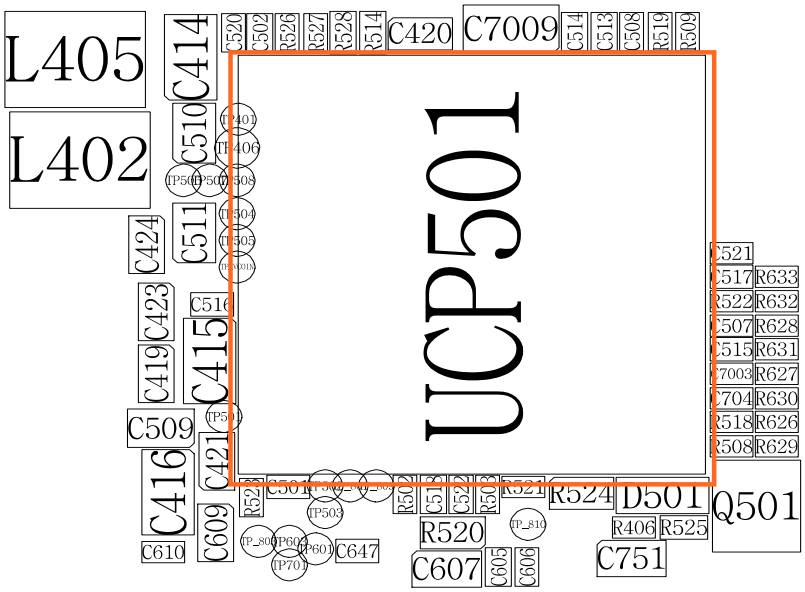

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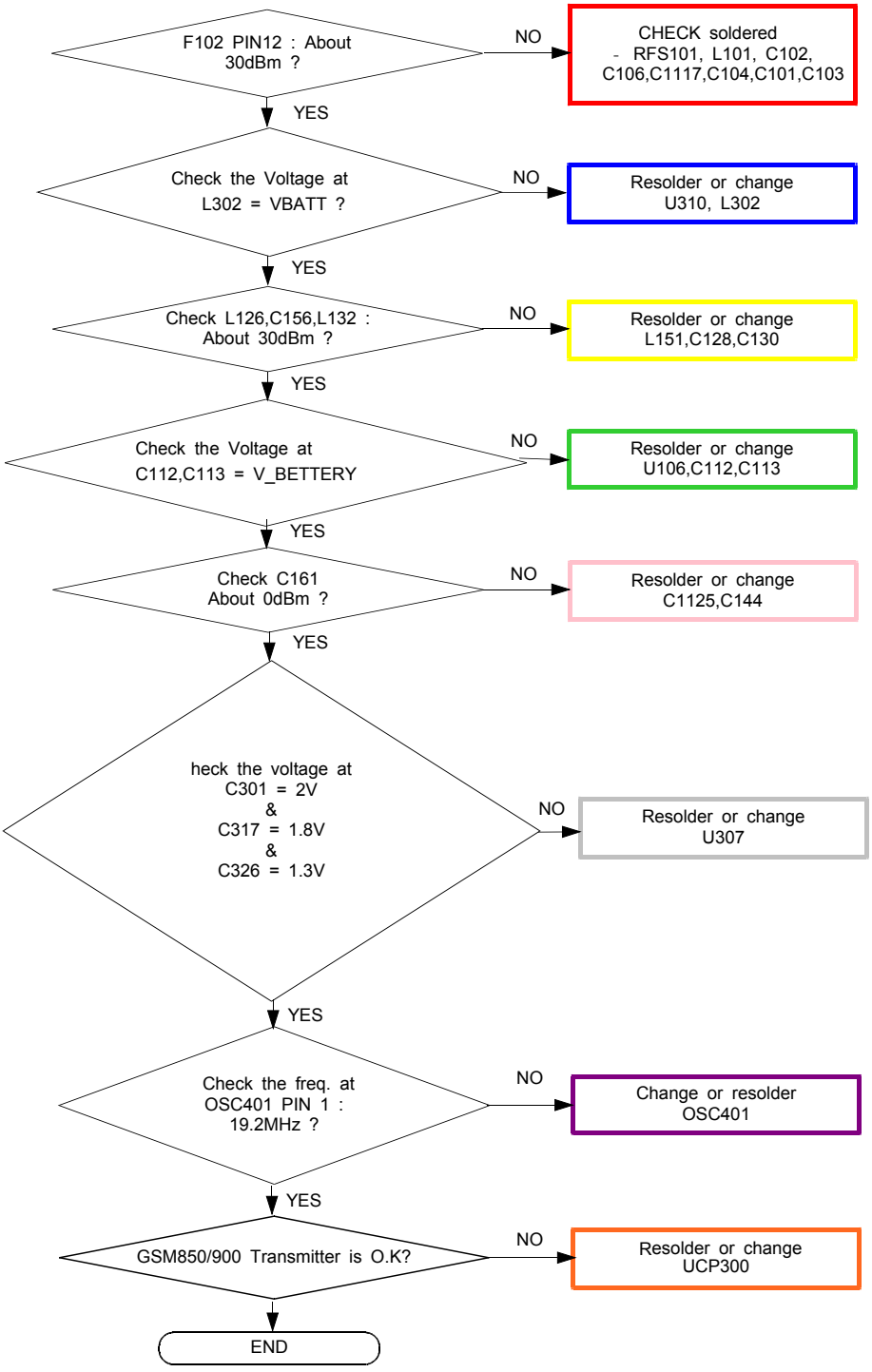
8-3-32. WCDMA900 TX

CONTINUOUS TX ON CONDITION
TX POWER IDX1 APPLIED
WCDMA900 CH : 2788
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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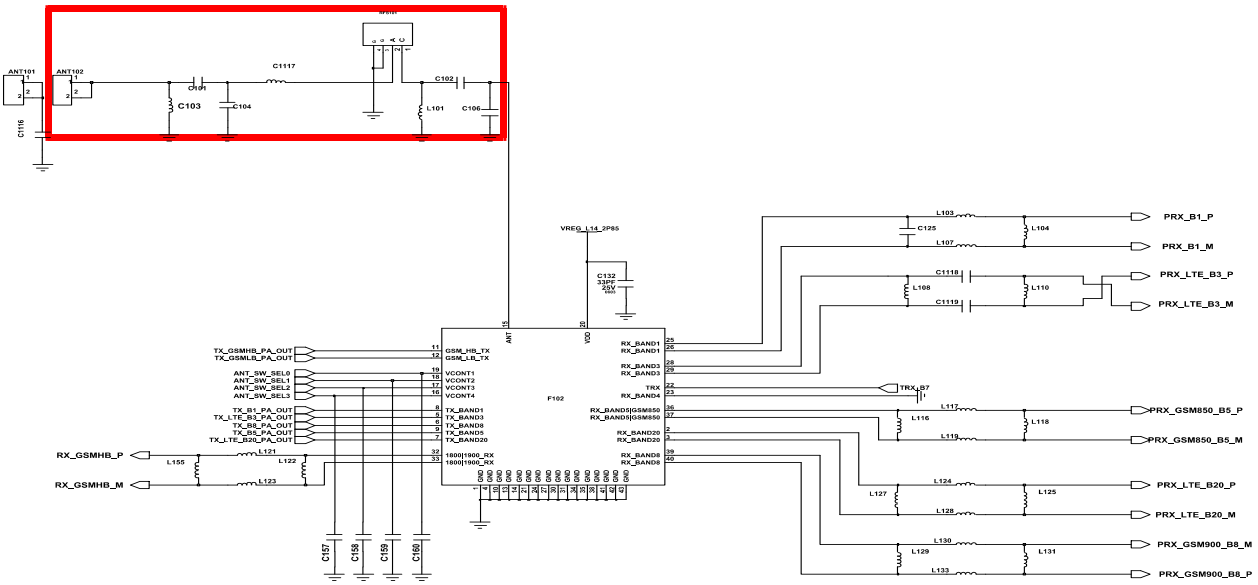

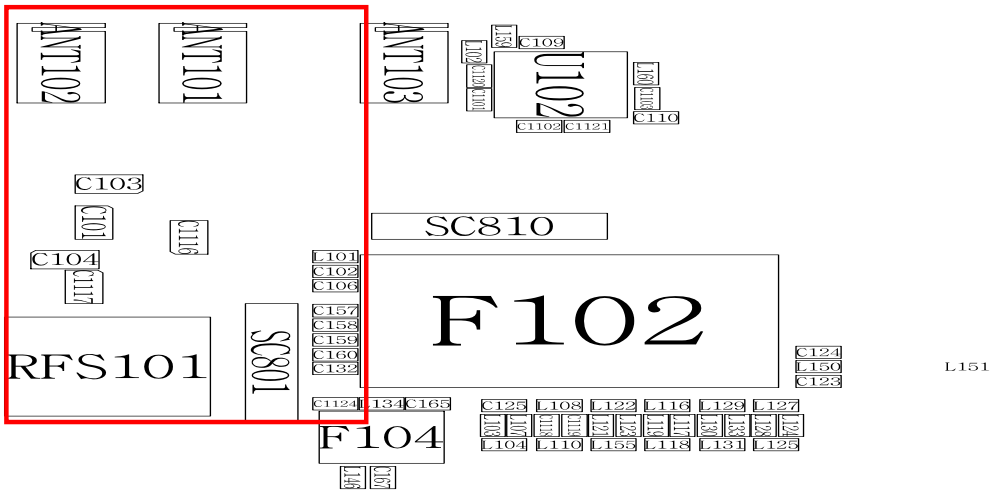

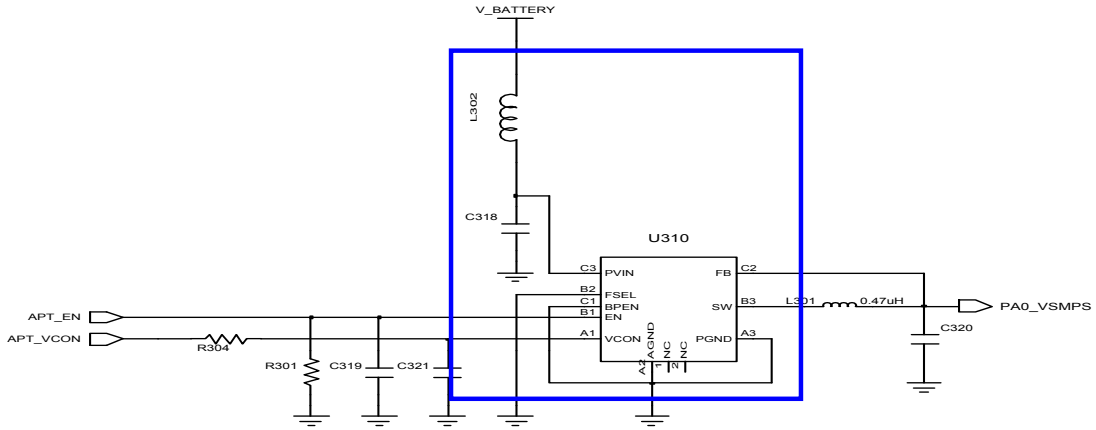

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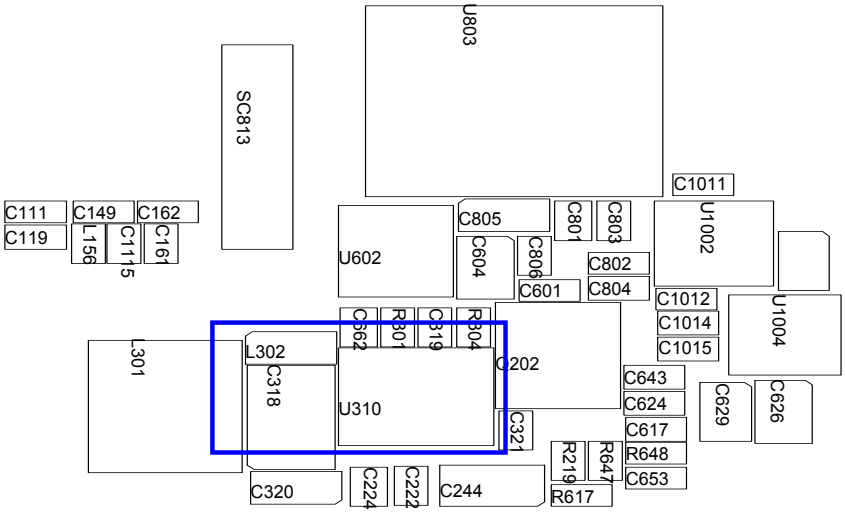

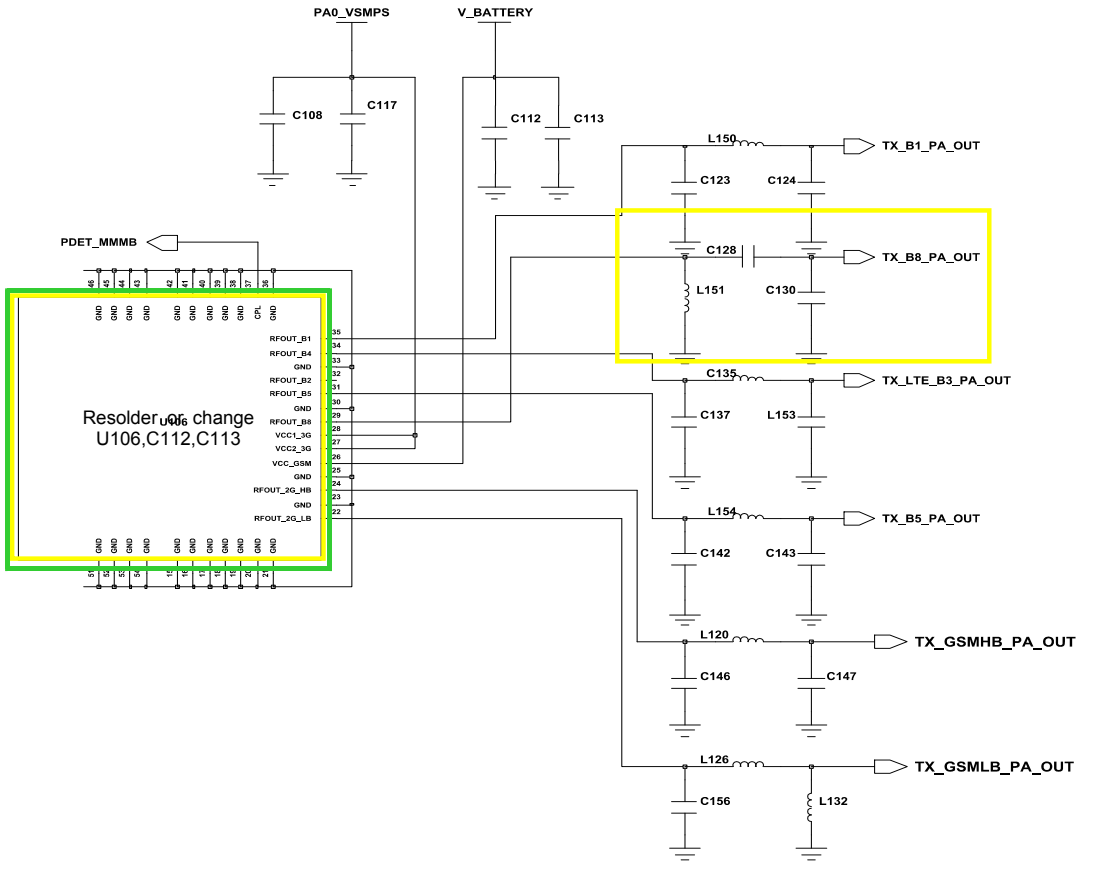

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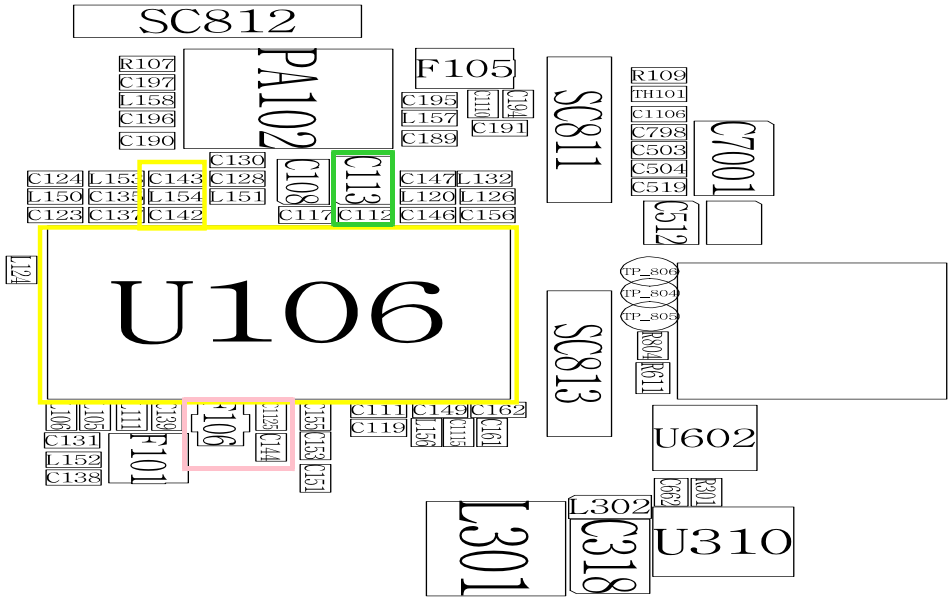

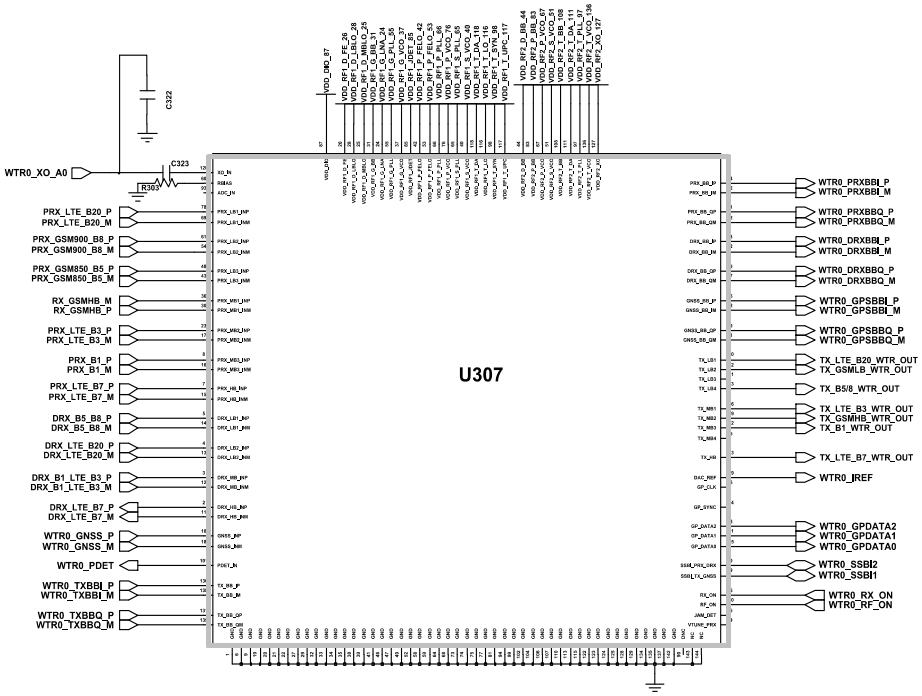

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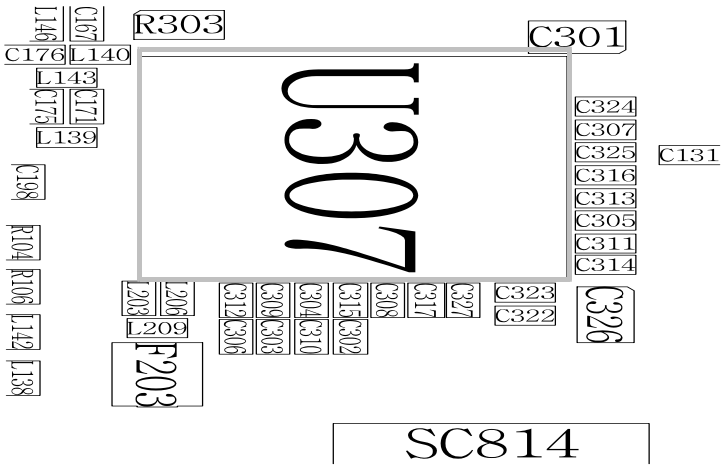

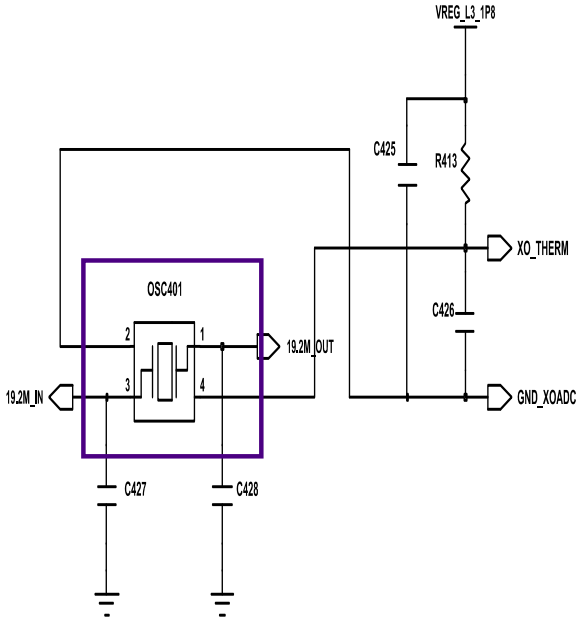

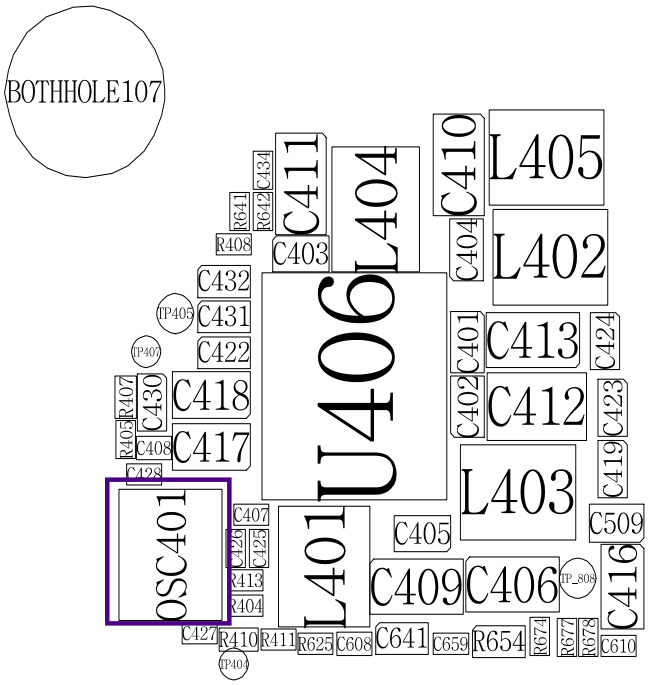

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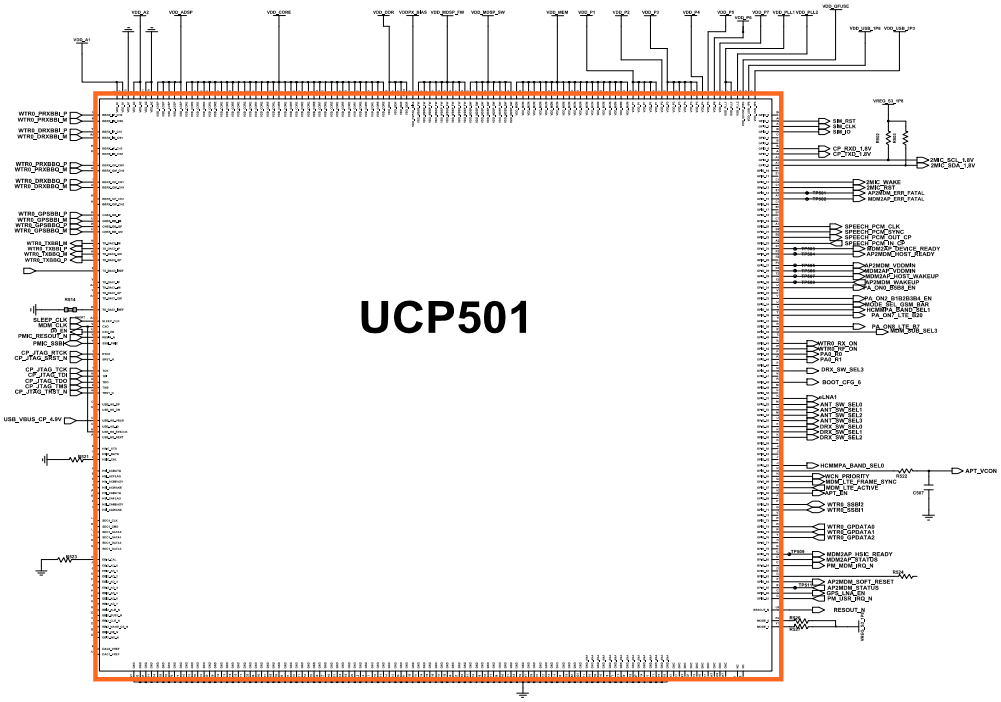

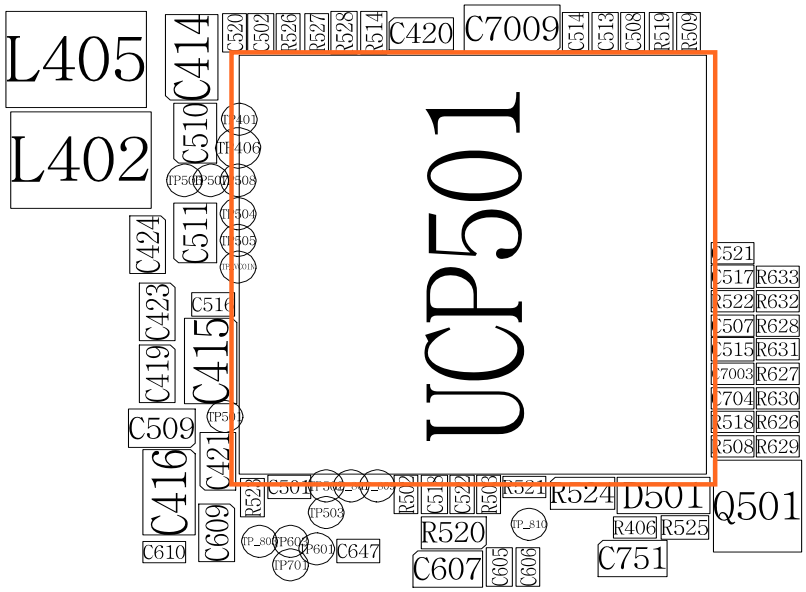

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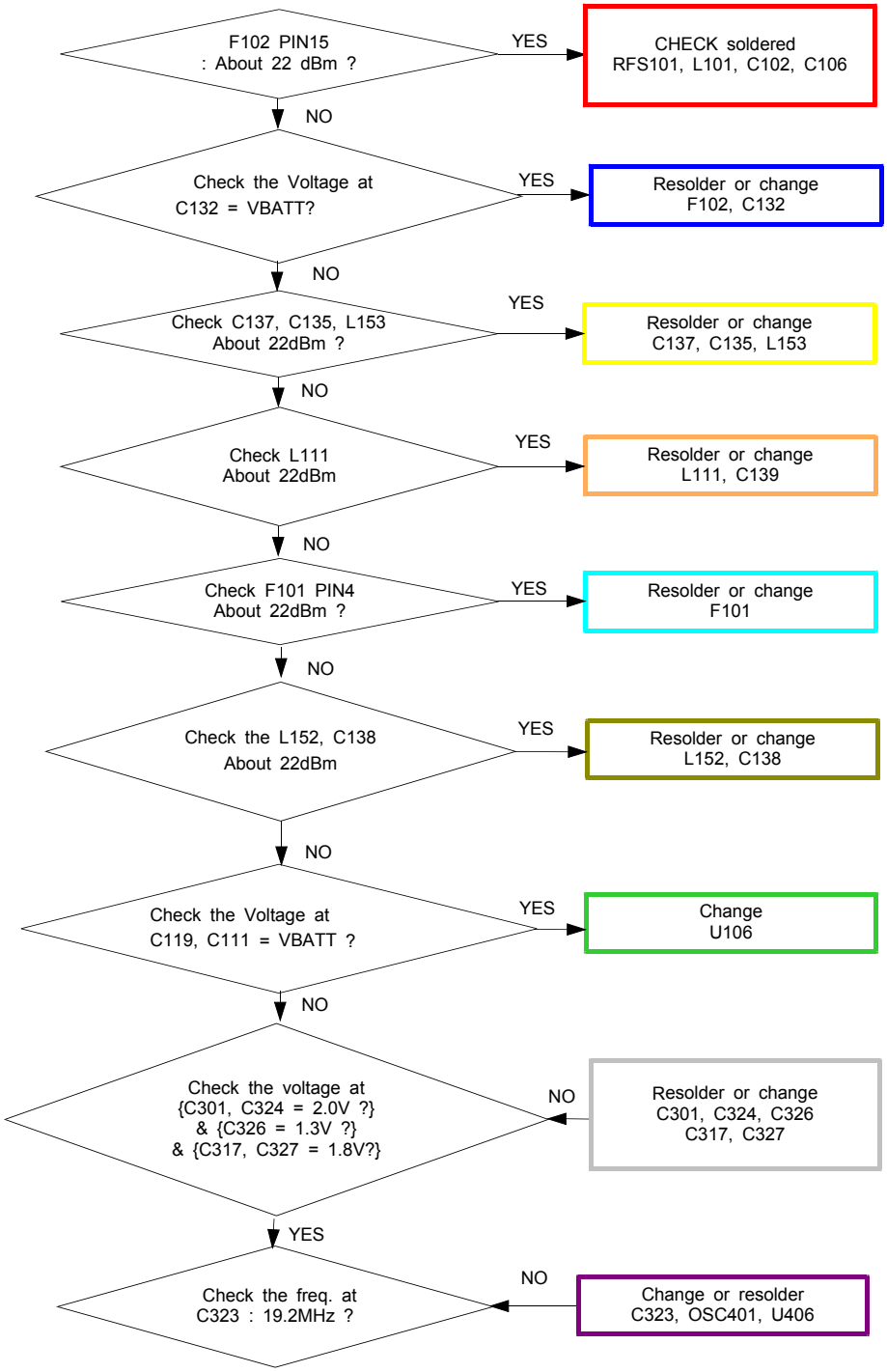
8-3-33. LTE Band3 TX



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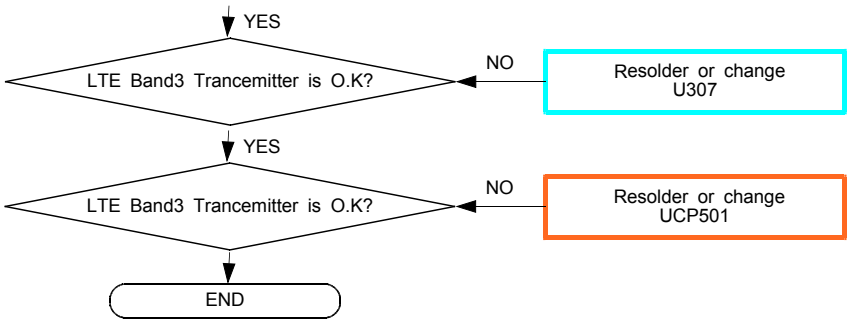

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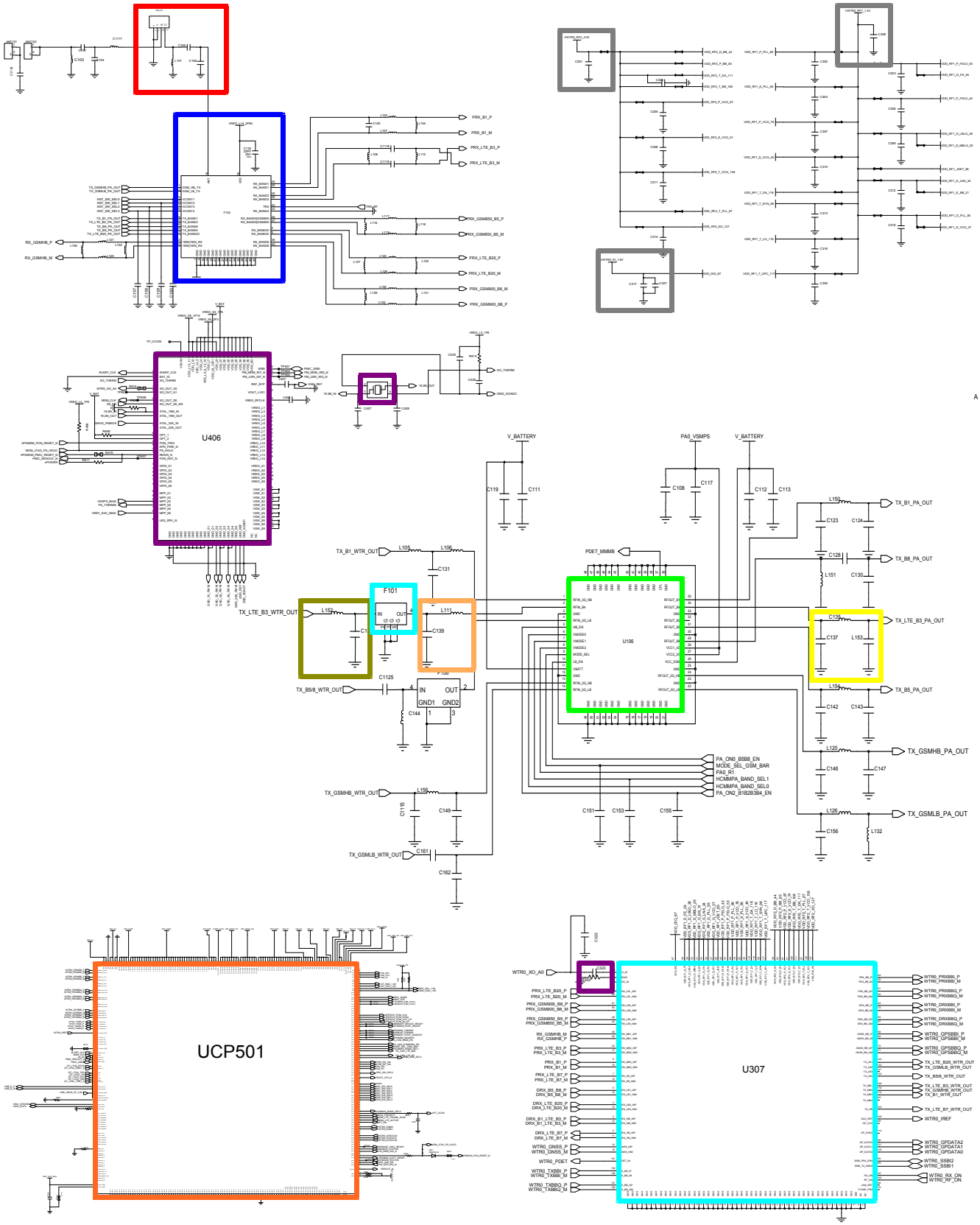

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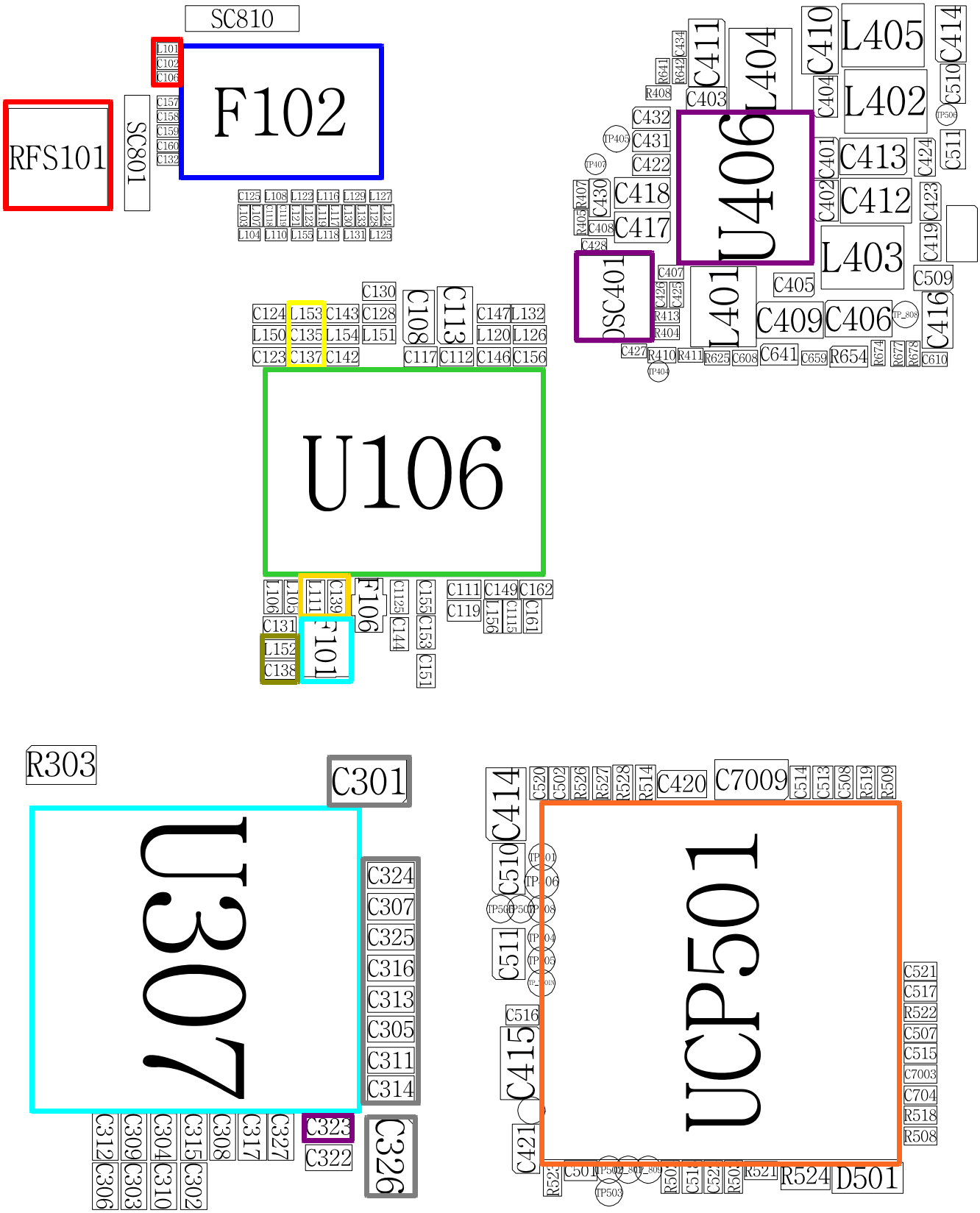

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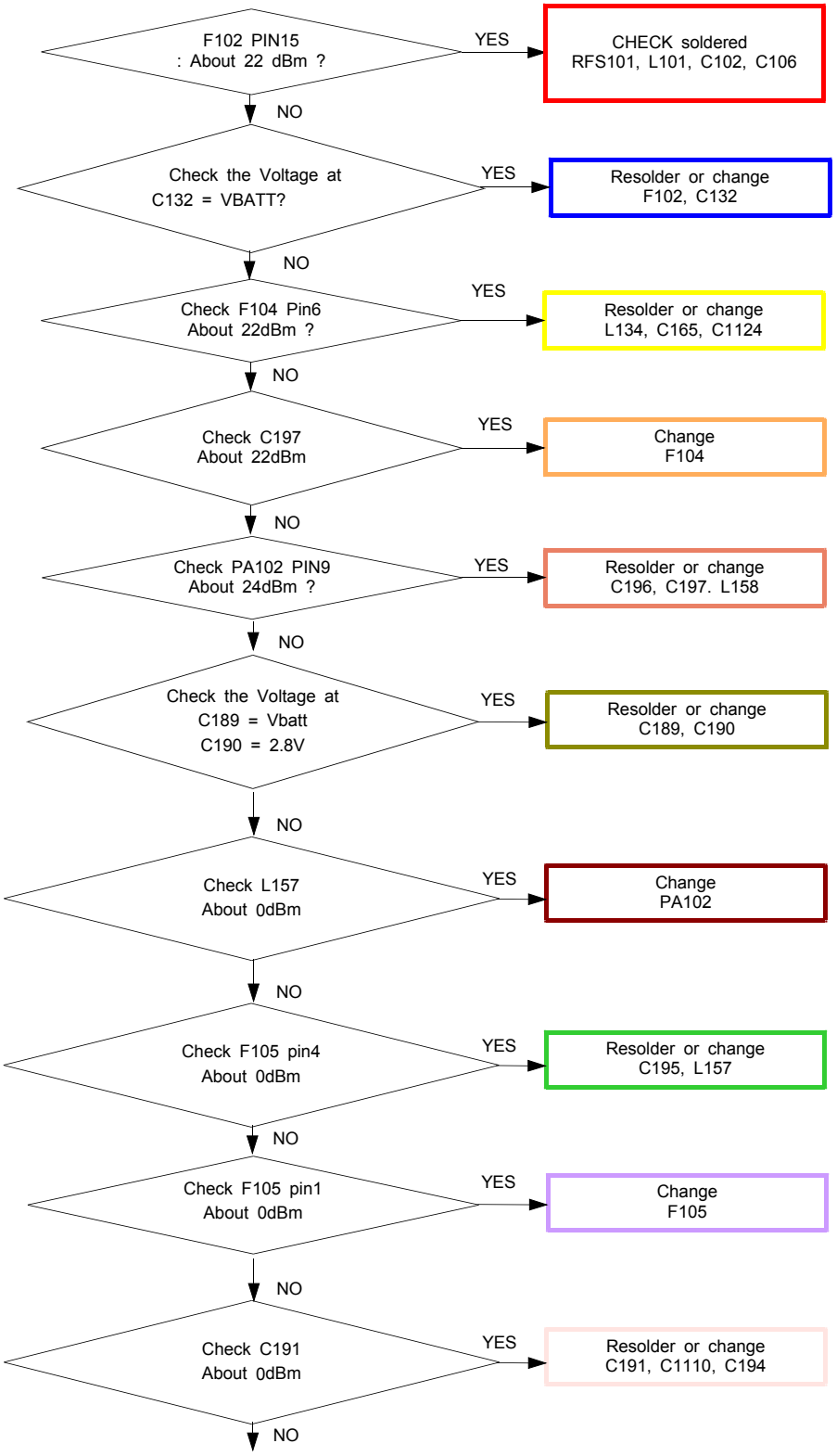
8-3-26. LTE Band7 TX

CONTINUOUS TX ON CONDITION
APPLIED
LTE Band7 CH : 20600
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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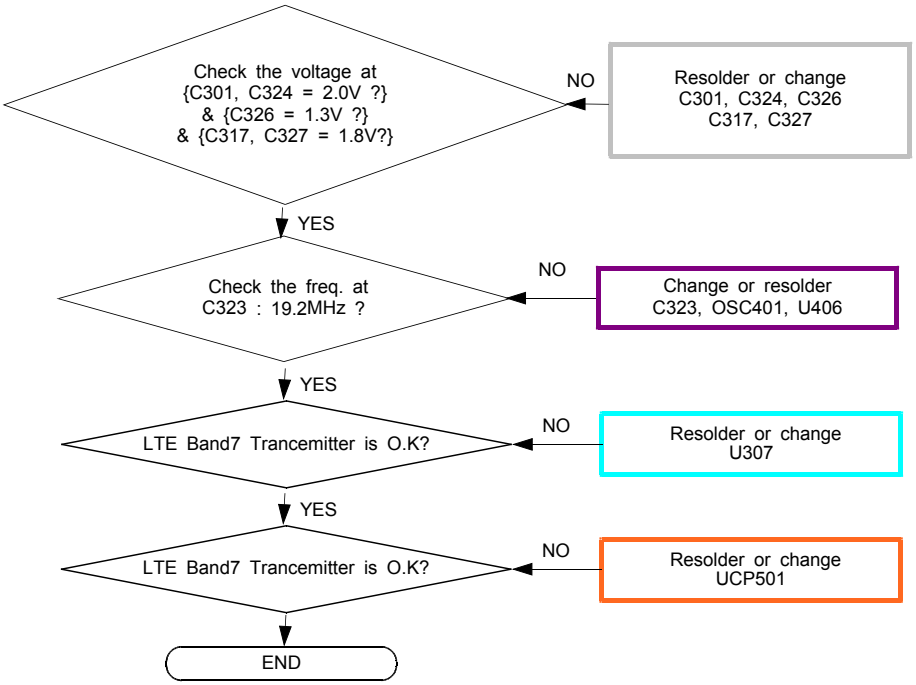

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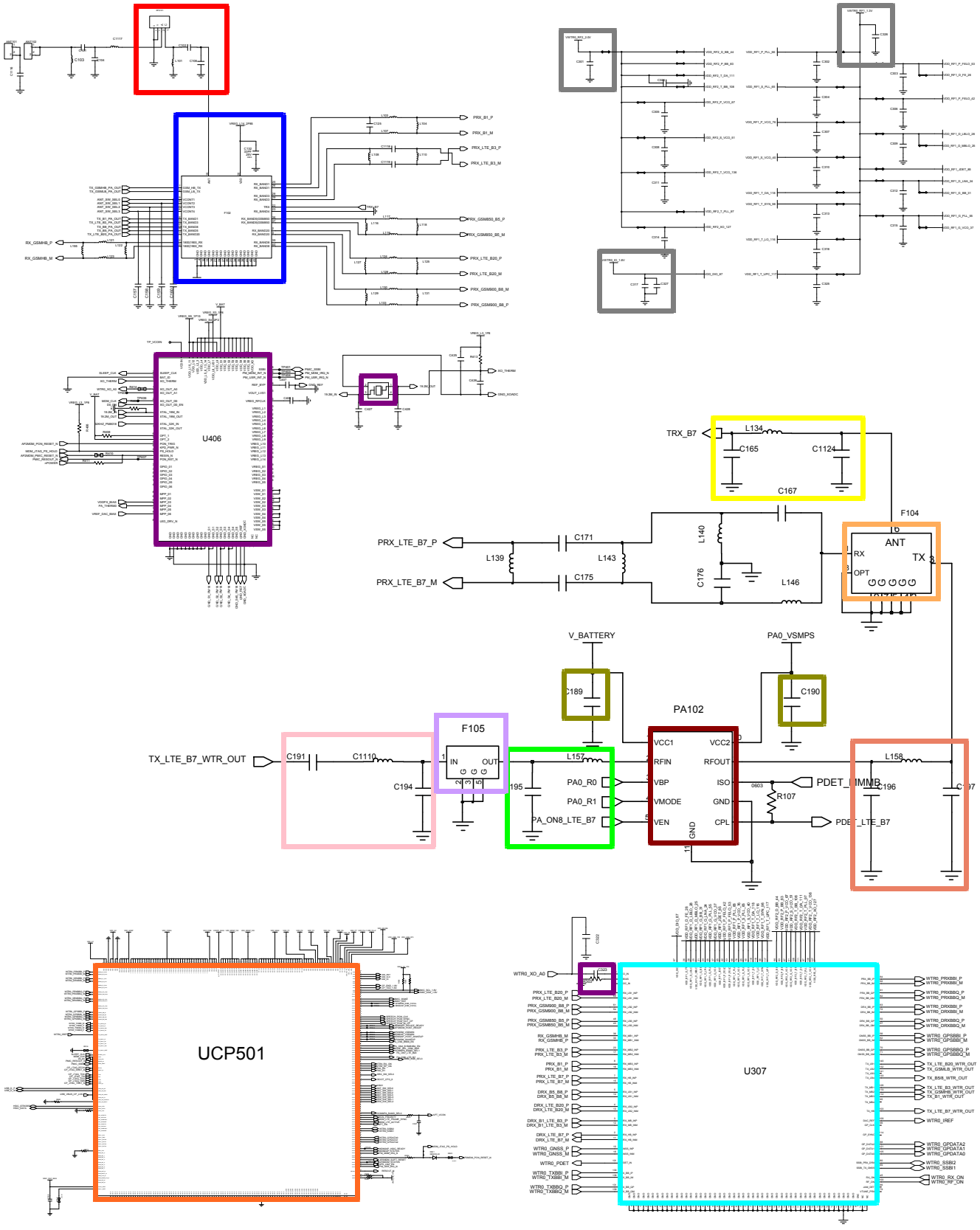

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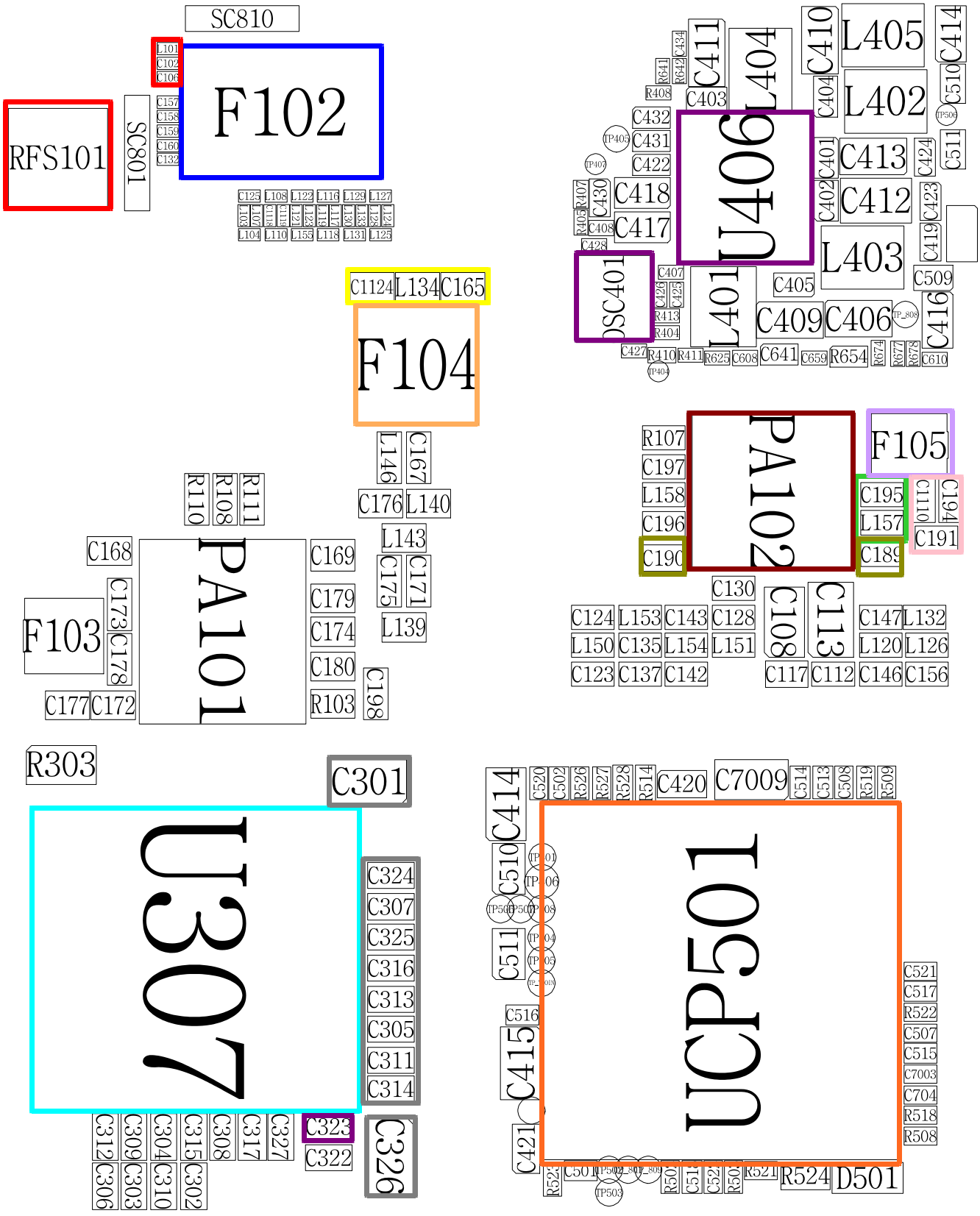

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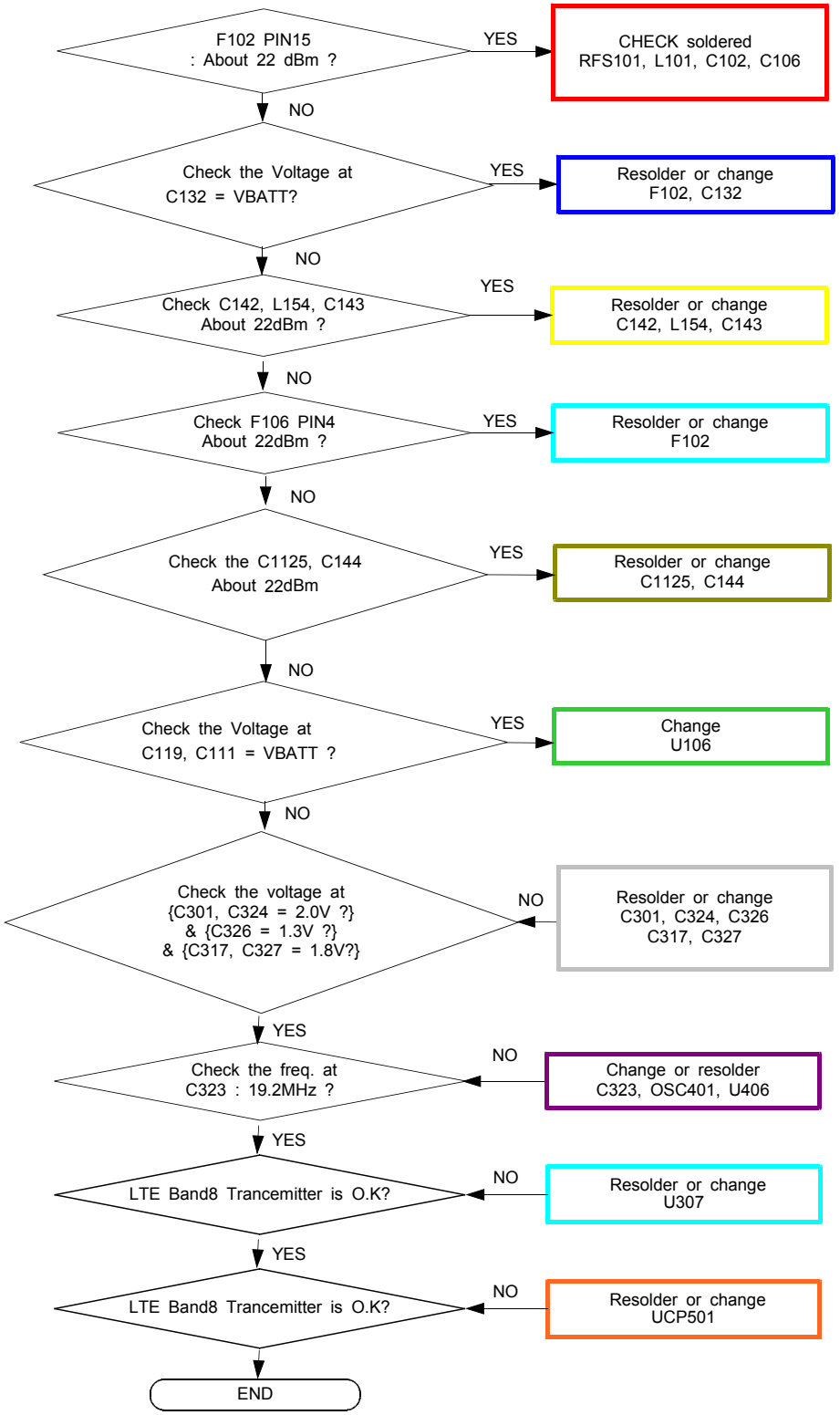
8-3-34. LTE Band8 TX

CONTINUOUS TX ON CONDITION
APPLIED
LTE Band8 CH : 21600
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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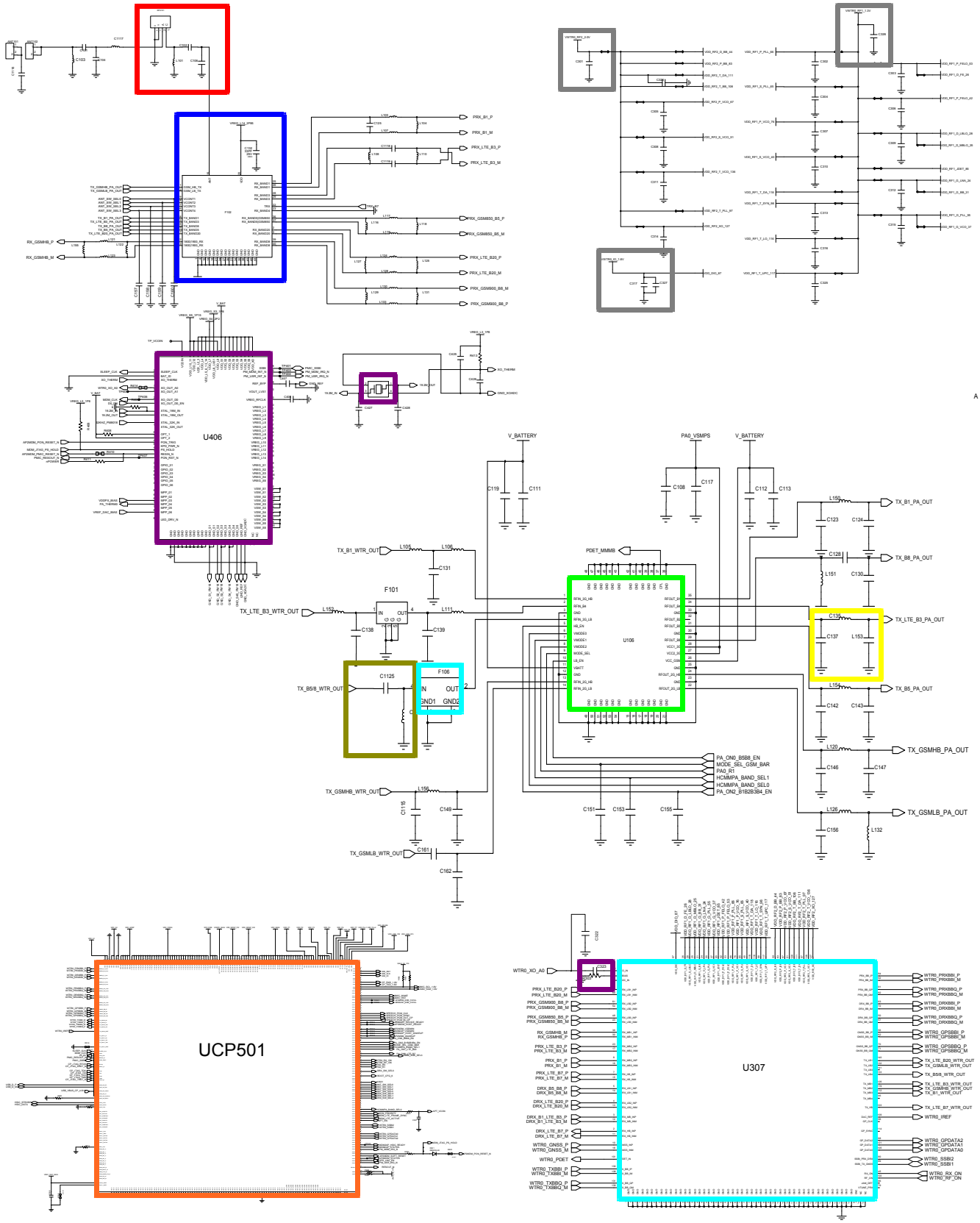

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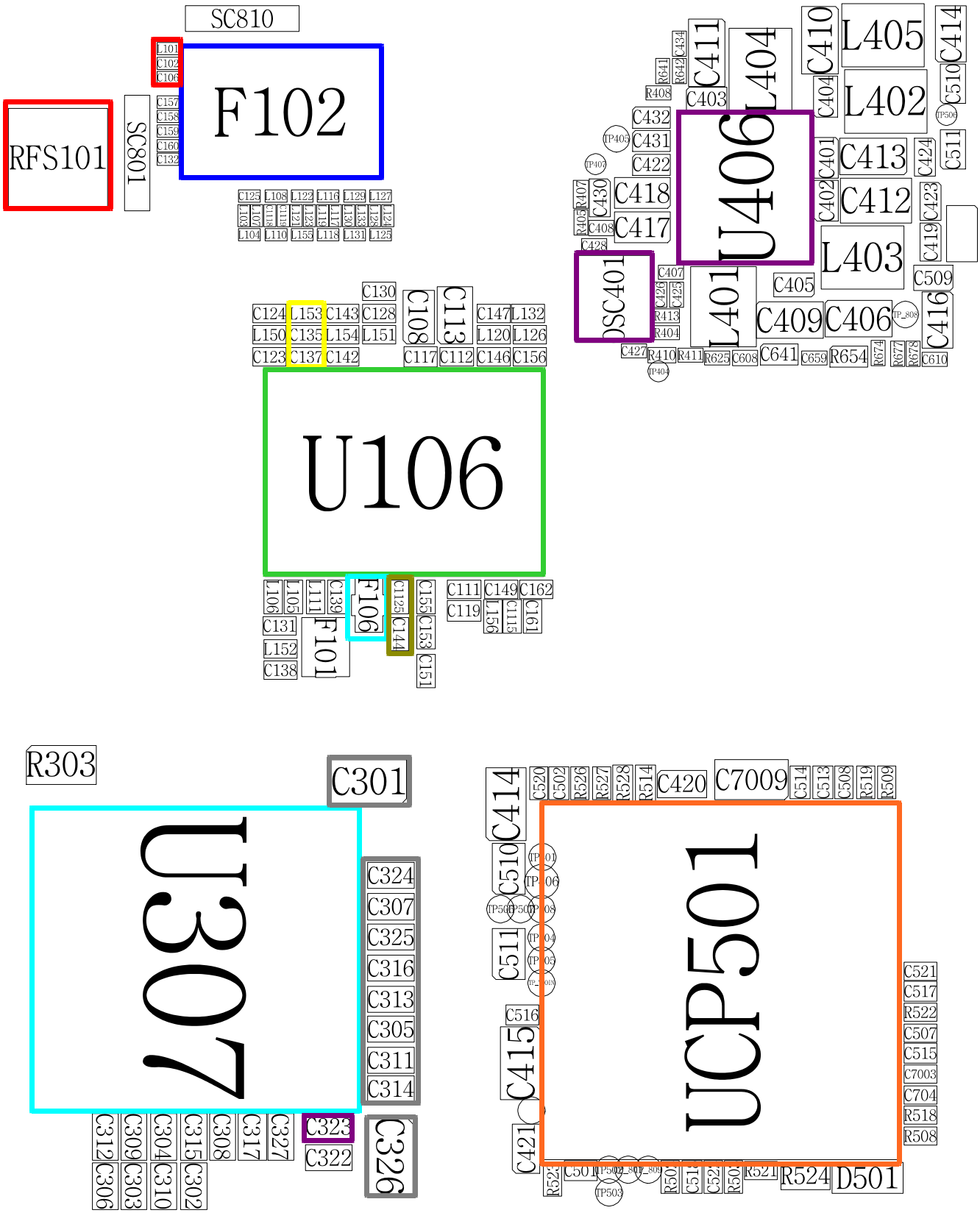

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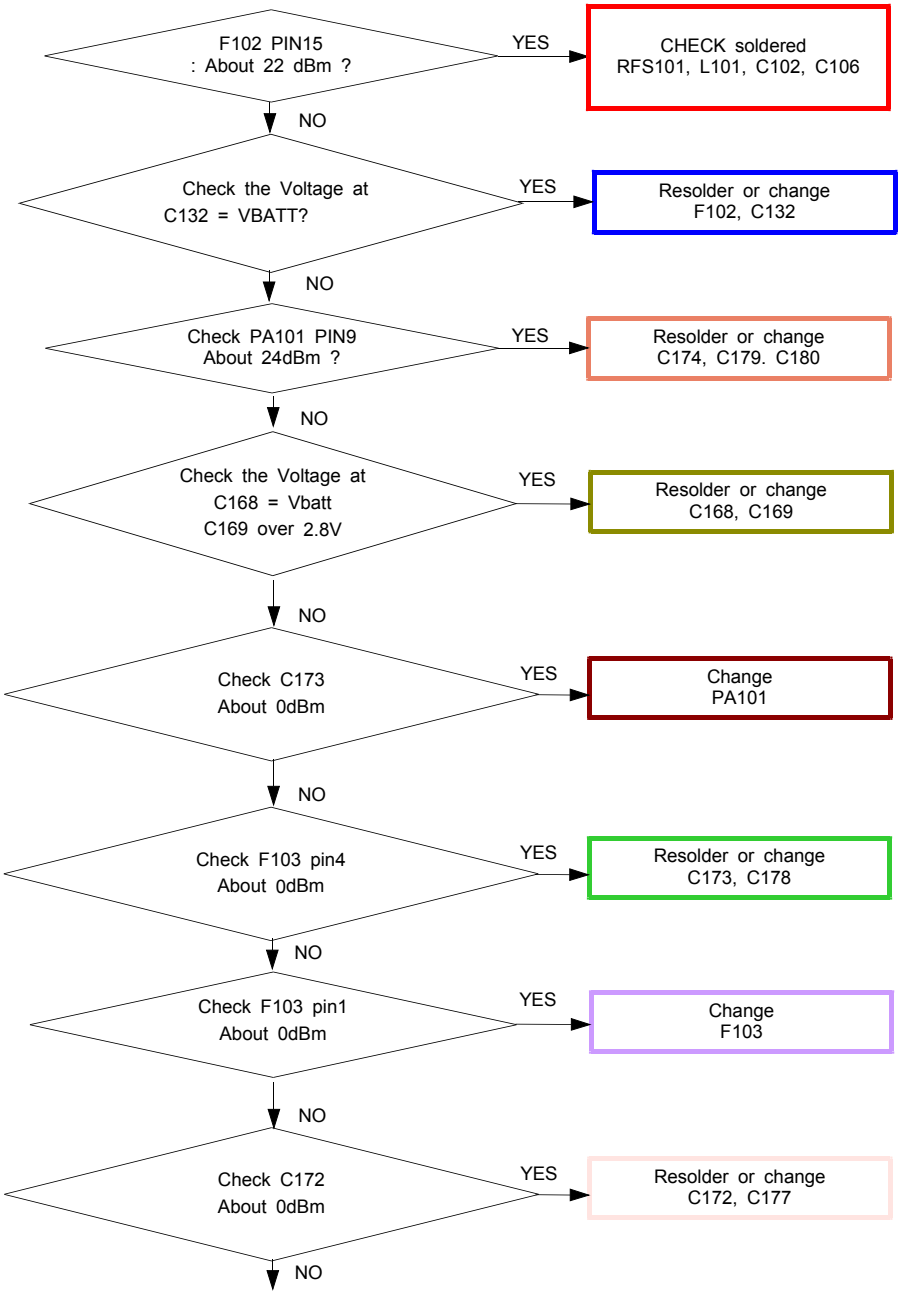
8-3-35. LTE Band20 TX

CONTINUOUS TX ON CONDITION APPLIED
LTE Band20 CH : 24300
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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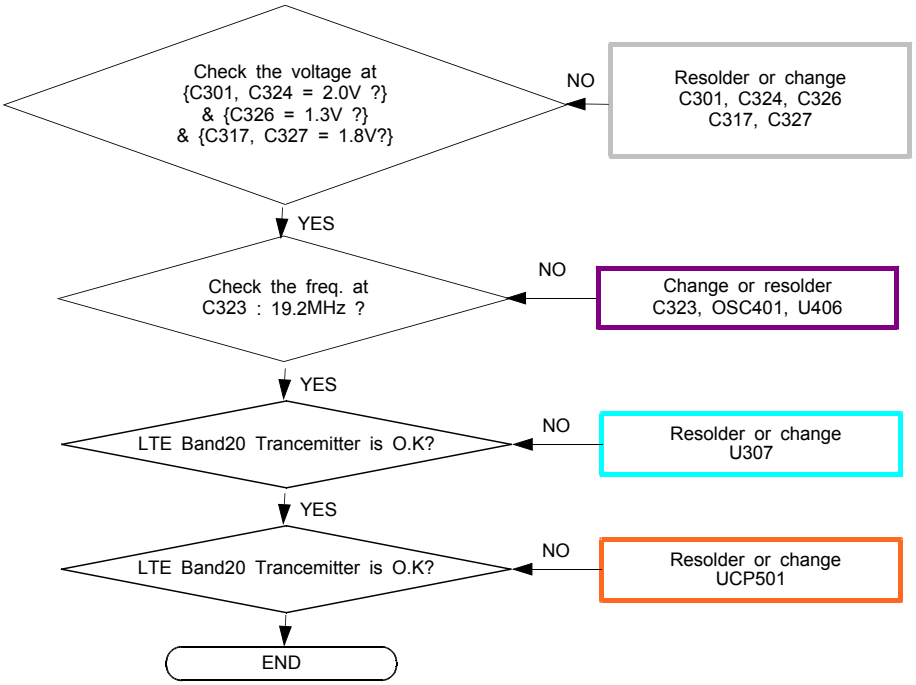

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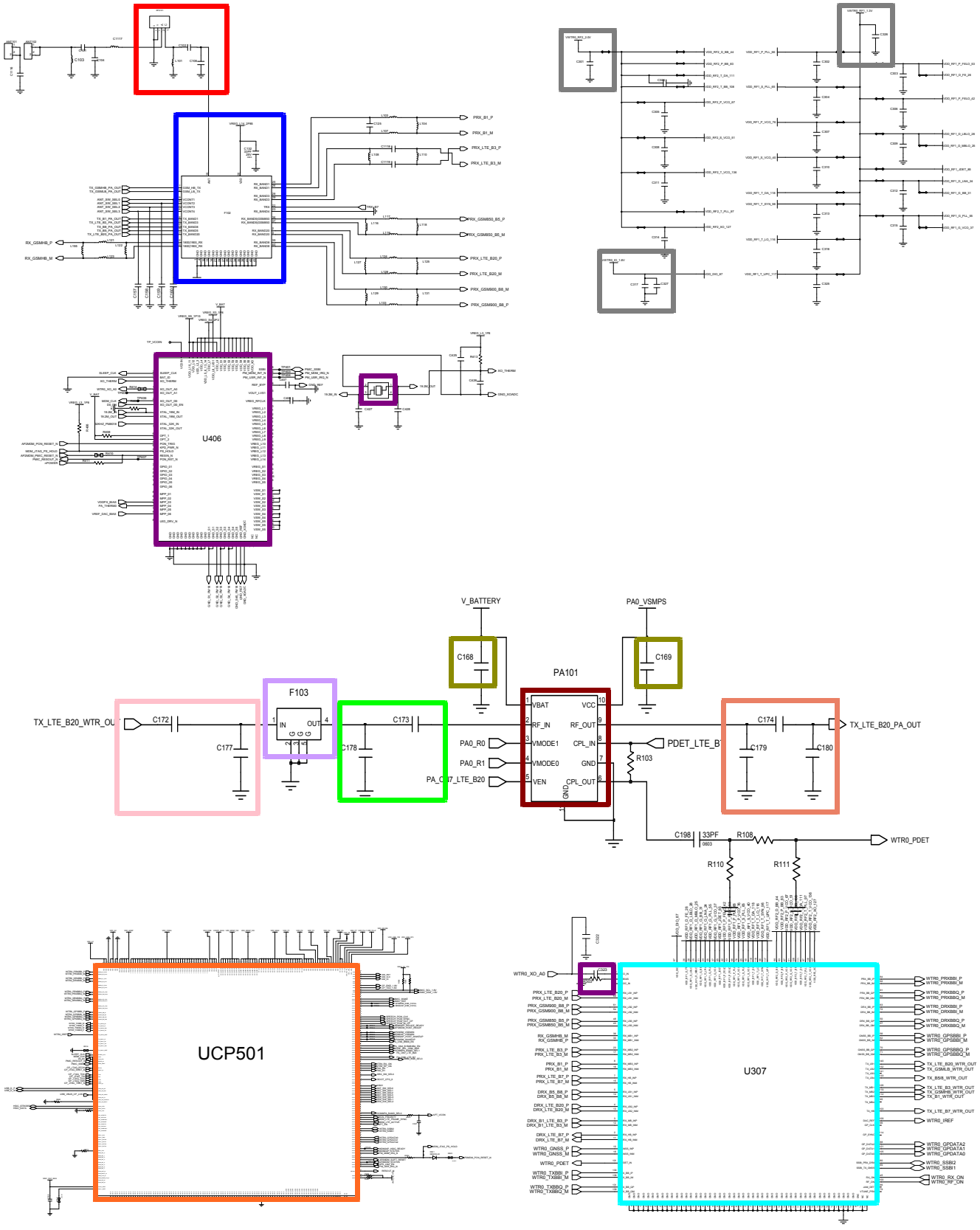

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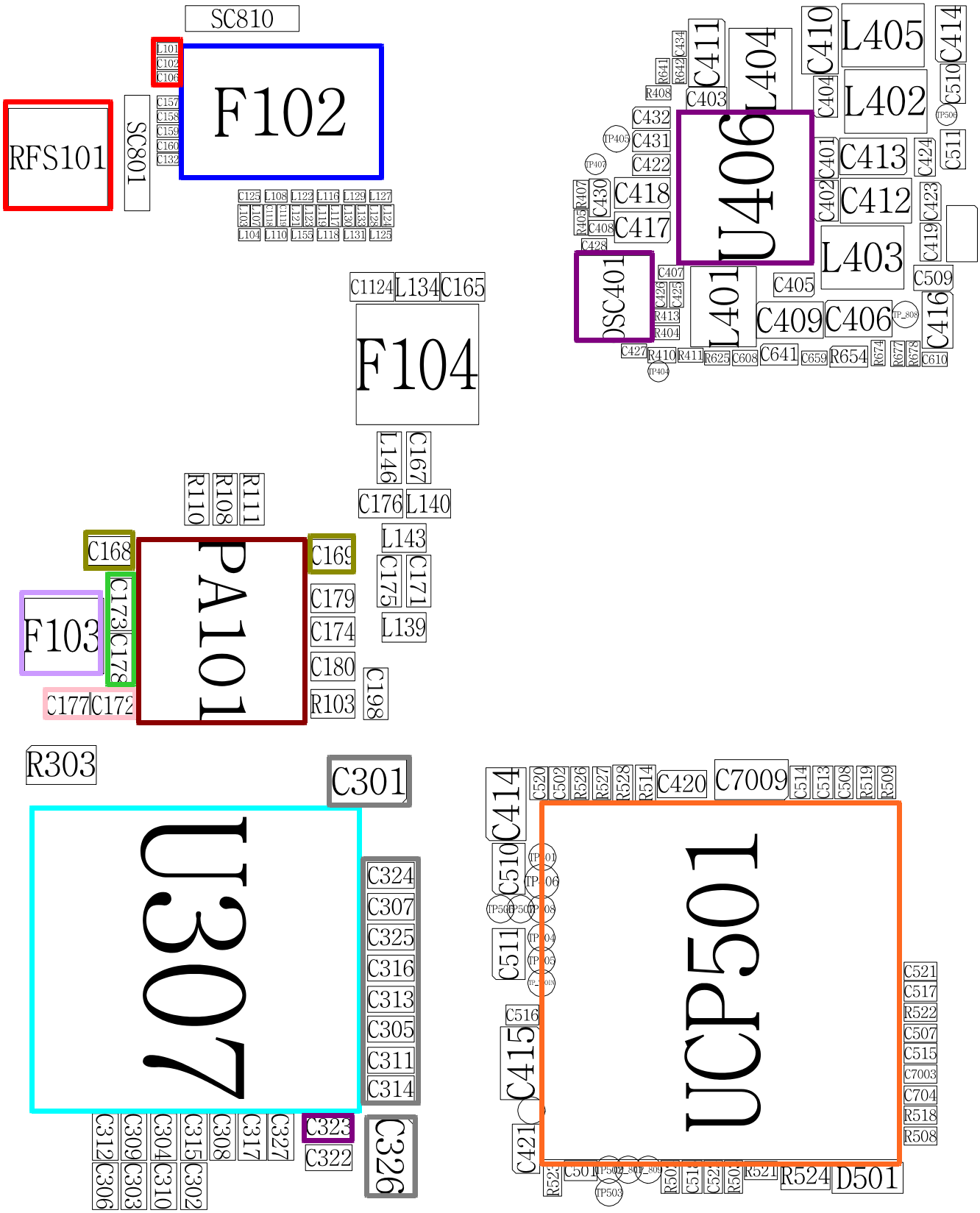

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